

2022-2023

Academic Planning Guide

Walton High School

1590 Bill Murdock Road • Marietta, GA 30062

(770)578-3225

<https://www.waltonhigh.org>

Administration

Principal
Assistant Principal
Assistant Principal
Assistant Principal
Assistant Principal
Assistant Principal
Assistant Principal

Dr. Catherine Mallanda
Dr. Chris Jones
Pamela LaVangie
Dr. Jeff Milton
Stephanie Santoro
Richard Tischler
Dr. Chris Williams

School Counseling Department

Counselor A-Ch
Counselor Ci-G
Counselor H-K
Counselor L-N
Counselor O-SI
Counselor Sm-Z
Part-time Counselor
Scheduling
Records Room
College & Career Center

Laura Clary
Betsy Alpert
Donna Dunham
Erica Watford
Tina Harwood
Lisa Fay
Carson Cox
Anilda Cook
Melissa Schrenk
Laurel Gross

Academic Program

Walton High School operates on a two-semester system with each semester being approximately 18 weeks long. Credit is established in units; each course meets every day for approximately 50 minutes and carries one-half unit credit upon successful completion. It is possible to earn three units of credit per semester, or a total of six units per year if all classes are successfully completed. During the 4 years (8 semesters) of high school, students may earn a total of 24 units of credit. Students may earn additional credit by taking a paid morning tuition class (1 per semester). Classes are offered based on minimum enrollment to support the program. Walton will accept one additional credit per semester from tuition-based Cobb Virtual Academy and Georgia Virtual School. Ninth grade students can only take 7 courses in any combination of zero period or online to earn 3.5 units of credit per semester. While online classes are completely independent of Walton High School and all academic responsibility is between the family and that school, students must receive permission from Walton High School in order to take the online course.

The variety of course offerings in each department will give students the necessary prerequisites for future activities, whether they include college, technical school, or work. Some courses have prerequisites. A prerequisite is a course that must be taken before another course. Some courses are sequential and must be taken in order. World Language and Mathematics are courses that are sequential in nature. Students should begin thinking and planning for future goals early in high school to be well prepared upon graduation. Students in the Class of 2015 and beyond must pass the course in which a Georgia Milestones End of Course Assessment is given and comprises 20% of the overall grade, as well as all necessary courses for graduation.

Advisement Program

The focus and intent of advisement is to create a communication bond between the school, student, and parents. It is an organized method for developing, with the input of three parties, an academic plan for students. Ninth grade students will receive advisement during spring semester to complete a four-year academic plan. Eleventh grade students will receive advisement in the fall to assess progress toward graduation and post-secondary goals. Scheduled meeting times for students and parents will be planned during the regular school day.

Athletic Eligibility

The Georgia High School Athletic Association requires the following accumulation of Carnegie units toward graduation according to the following criteria:

1. First-year students are eligible first semester. They must earn 2.5 units at the end of first semester to be eligible for the spring semester.
2. Second-year students must have accumulated 5 total units in the first year and have earned 2.5 units the previous semester.
3. Third-year students must have accumulated 11 total units in both years and have earned 2.5 units the previous semester.
4. Fourth-year students must have accumulated 17 total units in all three years and have earned 2.5 units the previous semester.

Grades/Grading Scale

The Cobb County School District has set the following grading scale:

A = 90-100

B = 80-89

C = 74-79

D = 70-73

F = Below 70

A student's grade point average is based on quality points awarded for each grade earned. All regular courses earn the following:

A = 4 quality points B = 3 quality points C = 2 quality points D = 1 quality point F = 0 quality points

Honors courses receive an extra 0.5 quality point. Honors courses are designated in the course section of the booklet with two asterisks (**). Advanced Placement courses are awarded an extra 1.0 quality point. These courses are designated with three asterisks (***). No extra quality points are earned if the student fails the course. Students are recommended by their current teacher for Honors and Advanced Placement courses based on the student's performance in the current course. Course placement is based on criteria set by each department.

Graduation Requirements

The State Board of Education has one common set of high school graduation requirements. Fulfillment of these graduation requirements will earn a student a high school diploma. Georgia's Board of Regents establishes the admissions requirements for Georgia's colleges and universities. Students should check the admission requirements of the college they wish to attend. Students must pass the course in which a Georgia Milestone End of Course Exam is given which comprises 20% of the overall course grade. Each student is encouraged to complete either an Academic, Fine Arts, CTAE or World Languages pathway.

| Subject | Required Credits | Diploma Requirement |
|----------------------|-------------------------|--|
| English | 4 | Must include 9 th Lit and American Lit |
| Mathematics | 4 | Must include Algebra 1, Geometry and Algebra 2 |
| Science | 4 | Must include Physical Science/Physics; Biology; Chemistry or Environmental Science or an AP Science; and 1 additional unit of science. |
| Social Studies | 3 | Must include World History, United States History, American Government and Economics |
| Health and PE | 1 | Health and Personal Fitness (0.5 credit each) |
| Required Electives | 3 | From Career Tech, World Language and/or Fine Arts |
| Additional Electives | 4 | |
| Total | 23 | Minimum required credits |

Pathway Completion

Starting with the class of 2017, each student is encouraged to complete either an Advanced Academic, Fine Arts, CTAE, or World Languages pathway.

Advanced Academic Pathway: An Advanced Academic Pathway may be followed in any of the following content areas: English, mathematics, science or social studies. Students complete an Advanced Academic Pathway when they have completed the required courses for graduation and one of the courses listed in the student's course history is either AP, IB, or dual enrollment. Additionally, students must earn credits in two sequential courses in one world language.

Fine Arts Pathway: Students complete a Fine Arts pathway when they have completed three courses in either Visual Arts, Band, Chorus, Orchestra, or Journalism/Yearbook.

World Language Pathway: Students complete a World Language Pathway when they have completed three courses in the same World Language.

CTAE Pathway: Students earn a CTAE Pathway when they complete a series of three or four specific courses in a CTAE-approved pathway. Walton High School offers complete pathways in the following areas: Financial Marketing Services Career Pathway, Computing Career Pathway, Therapeutic Services-Physical Medicine Career, Graphic Design Career Pathway, Broadcast/Video Production Career Pathway, and Engineering and Technology Concentration Pathway. Students may complete the JROTC Air Force Career Pathway by taking courses at Wheeler High School. Those interested in this pathway can contact the school counseling department.

School Counseling

School counselors are available to meet with students regarding academic, personal/social, or career development needs. Students should make appointments to see a school counselor either before school, after school or during their lunch periods. To see a counselor during a class period, students should request permission from their teacher and obtain a hall pass.

Honor Roll

Students who earn a semester GPA of 3.5 or higher and have no grades lower than a 74 will be placed on the Honor Roll. Students who earn a semester GPA of 4.0 or higher and have no grades lower than an 80 will be placed on the Principals' Honor Roll. Students who earn a 4.0 or higher for an entire academic school year will be awarded an Academic Letter. Students who do so in a subsequent year will be awarded an Academic Bar.

Promotion Requirements

Per Cobb County School Board Policy, IKE, students shall be on track to advance with the graduating class they enter as a ninth grader. The following minimum requirements must be met in order to advance to the next grade level.

10th grade: 5 units, including one full credit in English, math and science

11th grade: 10 units, including two full credits in English, math and science

12th grade: 16 total units

Transcripts

TRANSCRIPT REQUEST- A student who wants a copy of her/his transcript sent to a college must sign a request for a transcript to be released. This request form is kept on file in the RECORDS ROOM located in the school counseling office. Transcripts are released for a charge of \$2.00 each. Payments can be made with exact change or a check.

DUAL ENROLLMENT TRANSCRIPT REQUEST- A student who wants a copy of her/his transcript sent to a college must sign a request for a transcript to be released. This request form is kept on file in the RECORDS ROOM located in the school counseling office. Transcripts are released for a charge of \$2.00 each. Payments can be made with exact change or a check.

Course Selection Specifics

We try to make the registration process as smooth as possible at Walton High School. One way we do this is by building the master schedule for both teachers and students only after we have received all student requests for courses during registration. The master schedule, therefore, is determined by the student registration and provides the maximum accommodation for the courses desired by Walton students, with a minimum of schedule conflicts.

Since the master schedule is based entirely upon initial student registration, it is essential that students remain in the course for which they have registered, unless it is determined that the academic placement is inappropriate. Students register for the next school year during the March registration period; however, during the fall semester, students will have an opportunity to drop/add one semester elective courses for the upcoming spring semester. Year-long courses may not be dropped at the end of first semester.

The following information should be helpful in having a successful registration.

1. For all CORE classes (English, Math, Science, Social Studies and World Language), the current teacher will make recommendations for the level of curriculum the student should take next year. While each teacher will make a recommendation based on the specific core area, it is important to consider the overall course load. If the student and/or parent disagrees with the teacher's recommendation, or has concerns about the academic rigor, a waiver may be completed to request a different placement.
PLEASE NOTE:
 - Waivers are binding for one complete semester. Once the waiver has been submitted and approved, the class cannot be changed again during that semester.
 - Waivers are due to the school by May 1st for fall semester and November 15th for spring semester and will not be accepted after that date unless the teacher recommendation has changed.
 - Waivers may be obtained online through the student's CTLS homeroom.
2. For elective classes, students will complete registration using an online form accessible through their CTLS homeroom.
3. Registration for a year-long course (classes with an A and B semester) in an academic area, regardless if a core credit or an elective, may **not** be dropped at the end of first semester. Additionally, the course must be completed at Walton High School.
4. We do not honor teacher-preference requests during scheduling. All 2600+ students have preferences and it would be impossible to honor the requests of all students.

5. Seniors may not request Minimum Day once the semester has started. Seniors must request minimum day either during registration or during the drop/add time for second semester. All minimum day forms for fall must be turned in by May 1st of the junior year. Students registered for minimum day normally leave the last period of the day. If a student's lunch period can be scheduled for the period prior to the last period, the student may be allowed to leave school two periods early, with parent permission. However, students should not assume they can leave school two periods early because scheduling may not permit all minimum day students this option. **THERE IS NO GUARANTEE THAT A STUDENT WILL HAVE 6TH PERIOD LUNCH.** Students taking an online course other than Health and Personal Fitness are NOT eligible for Minimum Day.
6. Morning tuition school will be available if there is enough student interest. If you would like to take seven classes rather than six, please email Anilda Cook at Anilda.Cook@cobbk12.org for registration information. The fee for the extra course is \$300 per semester. Cash or check (payable to Walton High School) must accompany your registration and should be brought in person to the counseling suite. Students will be placed in any zero period course that his or her schedule allows.
7. Registering for zero period, Dual Enrollment or teacher apprenticeship does NOT guarantee a parking space on campus.
8. **CHOOSE YOUR COURSES CAREFULLY.** There are course descriptions for each course in this planning guide. In addition, there is an online Advanced Placement Booklet on the Walton website that will give more detailed information regarding the requirements and demands specific to AP classes. **It is not possible for students to “try out” a course to determine if it is a correct fit.** After the 10th day of the semester, any course dropped will receive a grade of “F” with an average of “10” as the grade on the official transcript per Cobb County School District policy.
9. AP courses taken at Walton High School or through an approved online provider will be given credit, an AP designation and receive the extra 1.0 extra quality point added to the GPA **ONLY if the AP exam is taken.**
10. Course selections are changed for the following reasons only:
 - If you failed or have not had the prerequisite for the particular course
 - If you are a senior and need a specific course to graduate
 - If you have previously received credit for the course.

Included in the list of course offerings is the grade level and course prerequisites. The following notations are used to denote additional weighting for grades earned in Honors and Advanced Placement courses:

**denotes course which receives an additional 0.5 quality point

***denotes course which receives an additional 1.0 quality point

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|-------------------------|
| Course Offerings |
|-------------------------|

| Course Title | Grade Level | Prerequisite |
|--------------------------------------|-------------|--|
| AP Capstone | | |
| AP Seminar*** | 11-12 | Prior AP course highly encouraged |
| AP Research*** | 12 | AP Statistics is strongly recommended; AP Seminar is required |
| Career Education | | |
| Intro Business & Technology A & B | 9-12 | |
| Financial Literacy A & B | 10-12 | Intro Business & Tech |
| Banking, Investing & Insurance A & B | 11-12 | Financial Literacy or Jr/Sr status |
| English | | |
| Ninth Lit/Comp A&B Honors ** | 9 | Teacher rec |
| ISA Ninth Lit/Comp A & B Honors ** | 9 | Admission to ISA |
| Ninth Lit/Comp A & B | 9 | |
| Ninth Lit/Comp A & B ELL | 9 | Identified ELL & teacher rec |
| AP Language/World Lit A & B *** | 10 | 1 unit 9 th lit & teacher rec |
| World Lit/Comp A & B Honors ** | 10 | 1 unit 9 th lit & teacher rec |
| ISA World Lit/Comp A & B Honors ** | 10 | Admission to ISA & ISA 9 th Lit Honors |
| World Lit/Comp A & B | 10 | 1/2 unit 9 th lit |
| World Lit A & B ELL | 10-11 | 1/2 unit English credit; Identified ELL |
| Amer Lit/Comp (LA) A&B Honors ** | 11 | 1 unit AP Language |
| Amer. Lit/Comp A & B Honors ** | 11 | 1 unit of English & teacher rec |
| American Lit/Comp A & B | 11 | 1 unit 9 th lit, 1/2 unit World Lit & Teacher rec |
| American Lit A & B ELL | 11 | 1 unit of 9 th Lit, 1/2 unit World Lit, Identified ELL |
| AP Language/American Lit A & B*** | 11-12 | 1 unit 9 th lit, 1/2 unit World Lit & Teacher rec |
| British Lit/Comp A & B Honors ** | 12 | 1 Unit 9 th lit, 1 unit, American lit & teacher rec |
| British Lit/Comp A & B | 12 | 1 unit 9 th lit, 1/2 unit World lit & 1/2 unit American lit |
| Dramatic Writing A & B | 12 | 1 unit 9 th lit, 1/2 unit World lit, and 1/2 unit American Lit; will receive dual credit in English and Fine Arts |
| AP Literature/Comp A & B*** | 12 | 1 unit each 9 th lit, World lit, AP Language & teacher rec |
| ISA AP Literature/Comp A & B*** | 12 | 1 unit each 9 th lit, World lit, American lit & admission to ISA |
| Journalism/Yearbook A & B | 9-12 | Not an English credit |
| Mythology Honors** | 11-12 | Not an English credit |
| Fine Arts | | |
| Visual Arts: Comprehensive | 9-12 | |
| Visual Arts: Drawing I | 9-12 | Visual Arts: Comprehensive |
| Visual Arts: Drawing & Painting | 10-12 | Visual Arts: Drawing I |
| Visual Arts: Drawing II A & B | 10-12 | Visual Arts: Drawing & Painting |
| AP Art & Design*** | 11-12 | Teacher rec |

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| 9th Treble Choir | 9-12 | Audition |
| Men's Ensemble | 9-12 | Audition |
| Bel Canto | 10-12 | Audition |
| Varsity Treble Ensemble | 11-12 | Audition |
| A Cappella | 10-12 | Audition |
| Select Women's Vocal Ensemble | 10-12 | Audition |
| Concert Band II | 9-12 | Audition |
| Concert Band I | 9-12 | Audition |
| Symphonic Band | 9-12 | Audition |
| Wind Symphony | 9-12 | Audition |
| Percussion | 9-12 | Audition |
| Dorian Orchestra | 9-12 | Audition |
| Aeolian Orchestra | 9-12 | Audition |
| Locrian Orchestra | 9-12 | Audition |
| Sinfonia | 9-12 | Audition |
| Philharmonia | 9-12 | Audition |
| Chamber Orchestra | 9-12 | Audition |
| Technical Theater | 9-12 | |
| Acting I | 9-12 | |
| AP Music Theory A & B*** | 11-12 | Teacher rec |

Mathematics

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|--|-------|---|
| GSE Algebra 1 A & B | 9 | Math 8 & teacher rec |
| GSE Alg 1 Support A & B | 9 | Teacher rec (elective credit only) |
| GSE Algebra 1 93 A & B | 9 | Math 8 & teacher rec – core math credit unit taken together spring semester |
| Foundations of Algebra 93 A & B | 9 | Math 8 & teacher rec – core math credit unit taken together fall semester |
| GSE Honors Algebra 1 A & B** | 9 | Adv. Math 8 & teacher rec |
| GSE Geometry A & B | 9-10 | GSE Algebra 1 & teacher rec |
| GSE Geometry 103 A & B | 10 | GSE Algebra 1 93 & teacher rec |
| GSE Honors Geometry A & B** | 9-10 | GSE Hon Alg 1 or GSE Alg 1 & teacher rec |
| GSE Accelerated Geometry/Algebra 2** | 9-10 | GSE Acc Alg 1/Geometry & teacher rec |
| STEM GSE Acc Geom/Algebra 2** | 9 | Admission to AMS STEM Academy |
| GSE Algebra 2 A & B | 10-11 | GSE Geom A & B or GSE Geom 103 & teacher rec |
| GSE Algebra 2 113 A & B | 11 | GSE Geom 103 & teacher rec |
| GSE Honors Algebra 2 A & B** | 10-11 | GSE Hon Geom or GSE Geom & teacher rec |
| GSE Accelerated PreCalculus AB A & B** | 11-12 | Honors Alg 2 & teacher rec |
| GSE Accelerated PreCalculus BC A & B** | 10-11 | Acc Geom/Alg 2 & teacher rec |

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| GSE PreCalculus A & B | 11-12 | Algebra 2 & teacher rec |
| STEM GSE Acc PreCalculus BC A & B** | 10 | Admission to AMS STEM Academy |
| STEM AP Calculus BC*** | 11 | Admission to AMS STEM Academy |
| AP Calculus AB A & B*** | 11-12 | GSE Acc PreCalc or PreCalc & Teacher rec |
| AP Calculus BC A & B*** | 11-12 | GSE Accelerated PreCalculus BC |
| Multivariable Calculus A & B*** | 11-12 | AP Calculus BC |
| AP Statistics A & B*** | 11-12 | GSE Hon Geometry & teacher rec |

Physical Education

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|-----------------------------------|-------|-------------------------------------|
| Personal Fitness | 9-12 | |
| Health | 9-12 | |
| Intro to Team Sports A & B | 9-12 | |
| Intro to Outdoor Education A & B | 10-12 | Offered spring semester only |
| Intro to Lifetime Sports A & B | 9-12 | |
| Intro to Recreational Games A & B | 9-12 | Offered fall semester only |
| Weight Training A & B | 9 | |
| Advanced Weight Training A & B | 10 | Weight Training |
| Physical Conditioning | 11 | Advanced Weight Training |
| Advanced Physical Conditioning | 12 | Physical Conditioning |
| Exercise & Weights | 10-12 | Teacher rec |

Science

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|---------------------------------------|-------|--|
| Honors Physics 1 A & B** | 9 | Concurrent w/ GSE Hon Alg 1 or Acc & teacher rec |
| Physics 1 A & B | 9-10 | Concurrent w/ GSE Alg 1 or GSE Alg 1 w/ support |
| Physics 1 93 A & B | 9-10 | Teacher rec |
| Honors Biology A & B** | 9-12 | Concurrent w/ Hon Alg I or higher math & Teacher rec |
| Biology A & B | 10-12 | 1 unit science |
| Biology 103 A & B | 10-12 | 1 unit science & teacher rec – no waivers |
| STEM Honors Biology A & B** | 9 | Admission to STEM BMS Academy |
| STEM Honors Biology A & B** | 9 | Admission to STEM ENG Academy |
| Honors Human Anat/Phys A & B** | 11-12 | 1 unit Biology & Teacher rec |
| Human Anat/Phys A & B | 11-12 | 1 unit Biology & 1 other science |
| Forensic Science A & B | 11-12 | 2 units of science & Teacher rec |
| STEM Principles of Biomed Sci A & B** | 9 | Admission to STEM BMS Academy |
| STEM Hon Human Body Systems A&B** | 10 | Admission to STEM BMS Academy |
| STEM Hon Medical Intervention A&B** | 11 | Admission to STEM BMS Academy |
| Environmental Science A & B | 11-12 | 1 unit biology & 1 unit of a physical sci |
| Environmental Science 113 A & B | 11-12 | 1 unit biology & 1 unit of a physical sci & Teacher rec |
| STEM Hon Biomed Innovations A&B** | 12 | Admission to STEM BMS Academy |
| Astronomy A & B | 12 | 3 units of science |
| Chemistry A & B | 11-12 | 2 units of science & concurrent with Alg 2 (not recommended with Alg 2: 113) |
| Honors Chemistry A & B** | 10-12 | 2 units of science & concurrent with Hon Alg 2 or higher |

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| STEM Hon Chemistry A & B** | 10 | Admission to STEM BMS Academy |
| Honors Biotechnology A & B** | 11-12 | 1 unit of bio, 1 unit of chem & teacher rec |
| Honors Physics 2 A & B** | 11-12 | 2 units of science & concurrent with GSE PreCalculus |
| Physics 2 A & B | 12 | 3 units of science (can't be enrolled in calculus) |
| STEM Hon Chemistry A & B** | 10 | Admission to STEM ENG Academy |
| AP Biology A & B*** | 11-12 | 1 unit hon biology, 1 unit hon chem & Teacher rec |
| STEM AP Biology A & B*** | 11 | Admission to STEM BMS Academy |
| AP Environmental Science A & B*** | 10-12 | 1 unit bio, 1 unit chem & teacher rec OR 1 unit hon bio & teacher rec |
| STEM AP Env. Science A & B*** | 9 | Admission to STEM AMS Academy |
| AP Chemistry A & B*** | 11-12 | 1 unit hon chem & Teacher rec |
| STEM AP Chemistry A & B*** | 10 | Admission to STEM AMS Academy |
| STEM AP Chemistry A & B*** | 12 | Admission to STEM ENG Academy |
| AP Physics C – Mechanics A & B*** | 11-12 | 2 units of science, concurrent with calculus & Teacher rec |
| STEM AP Physics C – Mechanics A&B*** | 11 | Admission to AMS STEM Academy |
| AP Physics C – Emag A & B*** | 12 | 3 units of science including 1 unit of physics, concurrent w/ calc & Teacher rec |
| AP Physics 1 A & B*** | 11-12 | 2 units of science, concurrent with GSE Acc PreCalc or higher & Teacher rec |
| STEM AP Physics 1 A & B*** | 11 | Admission to STEM ENG Academy |
| STEM AP Physics 2 A & B*** | 12 | Admission to STEM ENG Academy |
| AP Physics 2 A & B*** | 12 | AP Physics 1 A & B, Teacher rec |

Social Studies

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|-----------------------------------|-------|--|
| World Geography A & B | 9 | |
| AP Human Geography A & B*** | 9 | Teacher rec |
| Honors American Government ** | 10 | Teacher rec |
| American Government | 10 | |
| American Government 103 | 10 | Teacher rec; no waivers - Offered spring semester only |
| AP Government/Politics US*** | 10 | Teacher rec |
| AP Government: Comparative*** | 10-12 | AP Government OR Hon. Gov't with teacher rec – offered spring only |
| Principles of Economics Honors ** | 10 | Teacher rec |
| Principles of Economics | 10 | |
| Principles of Economics 103 | 10 | Teacher rec; no waivers – offered fall semester only |
| AP Microeconomics*** | 10 | Teacher rec |
| AP Macroeconomics*** | 10-12 | AP Microeconomics OR Hon. Econ with teacher rec– offered spring only |
| ISA AP Government*** | 10 | Admission to ISA – offered spring semester only |
| Honors US History A & B** | 11 | Teacher rec |
| US History A & B | 11 | |
| US History 113 A & B | 11 | Teacher rec – no waivers allowed |
| AP US History A & B*** | 11 | Teacher rec |
| ISA AP US History A & B*** | 11 | Admission to ISA |
| Honors World History A & B** | 12 | Teacher rec |
| World History A & B | 12 | |
| World History 123 A & B | 12 | Teacher rec – no waivers |

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|------------------------------|-------|-------------|
| AP World History A & B*** | 12 | Teacher rec |
| Current Issues | 11-12 | |
| Honors Psychology** | 11-12 | |
| Sociology | 10-12 | |
| Technology & Society | 10-12 | |
| AP European History A & B*** | 10-12 | Teacher rec |
| AP Art History A & B *** | 11-12 | Teacher rec |
| AP Psychology | 11-12 | |
| Ethnic Studies | 10-12 | |

Technology Education

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|---|-------|---|
| Intro to Graphic Arts 1A | 9-12 | |
| Intro to Graphic Arts 1B | 9-12 | Intro to Graphic Arts 1A |
| Graphic Design & Production 2A | 10-12 | Intro to Graphic Arts 1B |
| Graphic Design & Production 2B | 10-12 | Graphic Design & Production 2A |
| Advanced Graphic Design 3A | 11-12 | Graphic Design & Production 2B |
| Advanced Graphic Design 3B | 11-12 | Advanced Graphic Design 3A |
| Advanced Graphic Output Processes 4A | 12 | Advanced Graphic Design 3B |
| Advanced Graphic Output Processes 4B | 12 | Advanced Graphic Output Processes 4A |
| AP Computer Science Principles A&B*** | 10-12 | GSE Algebra 1 |
| AP Computer Science A&B*** | 10-12 | AP Comp Sci Principles and Teacher rec |
| STEM AP Computer Sci Prin A&B*** | 10-12 | Admission to STEM Program |
| STEM AP Computer Science A&B*** | 11-12 | STEM AP Comp Sci Principles |
| Advanced Scientific Research – Web Design*** | 12 | AP Computer Science Principles, AP Computer Science and Teacher Rec |
| Hon Intro to Engineering Design A&B** | 9-12 | Concurrent with GSE Algebra 1 |
| STEM Hon Engineering Design A&B** | 9 | Admission to STEM ENG Academy |
| Hon Principles of Engineering A&B** | 10-12 | Intro to Eng Design & concurrent w/ Geo |
| STEM Hon Prin of Engineering A&B** | 10 | Admission to STEM ENG Academy |
| Honors Digital Electronics A & B** | 11-12 | Principles of Engineering |
| STEM Hon Digital Electronics A&B** | 11 | Admission to STEM ENG Academy |
| Honors Aerospace Engineering A&B** | 11-12 | Principles of Engineering |
| STEM Hon Aerospace Engineering A&B** | 11 | Admission to STEM ENG Academy |
| STEM Hon Engineering Design & Development A & B** | 12 | Admission to STEM ENG Academy |
| Broadcast/Video Productions 1A | 9-12 | |
| Broadcast/Video Productions 1B | 9-12 | Broadcast/Video Productions 1A |
| Broadcast/Video Productions 2A | 9-12 | Broadcast/Video Productions 1B |
| Broadcast/Video Productions 2B | 9-12 | Broadcast/Video Productions 2A |
| Broadcast/Video Productions 3A | 9-12 | Broadcast/Video Productions 2B |
| Broadcast/Video Productions 3B | 9-12 | Broadcast/Video Productions 3A |
| Broadcast/Video Productions 4A | 9-12 | Broadcast/Video Productions 3B |
| Broadcast/Video Productions 4B | 9-12 | Broadcast/Video Productions 4A |
| Intro to Healthcare Science A & B | 9-12 | |
| Essentials of Healthcare A & B | 10-12 | Intro to Healthcare Science |
| Sports Medicine A & B | 11-12 | Essentials of Healthcare |
| Work-based Learning Sports Med A&B | 12 | Sports Medicine |

Other Courses

| | | |
|------------------------|-------|--|
| Mentorship 1A | 11 | Application required |
| Mentorship 1B | 11 | Application required |
| Mentorship 2A | 12 | Application required |
| Mentorship 2B | 12 | Application required |
| Teacher Apprenticeship | 11-12 | Application required |
| Minimum Day | 12 | Application required |
| Work Based Learning | 12 | Application required |
| JROTC 1 | 9-12 | At Wheeler HS; see counselor for details |
| JROTC 2 | 10-12 | At Wheeler HS; see counselor for details |
| JROTC 3 | 11-12 | At Wheeler HS; see counselor for details |
| JROTC 4 | 12 | At Wheeler HS; see counselor for details |

World Language

| | | |
|---|-------|--|
| French I A & B | 9-12 | |
| French II A & B | 9-12 | French I A & B |
| French III A & B** | 10-12 | French II A & B |
| French IV A & B*** | 11-12 | French III A & B |
| AP French Language & Culture A & B*** | 12 | French IV A & B |
| Spanish I A & B | 9-12 | |
| Spanish II A & B | 9-12 | Spanish I A & B |
| ISA Spanish II A & B | 9 | Admission to ISA |
| Spanish III A & B Honors ** | 10-12 | Spanish II A & B |
| Spanish III A & B Advanced Honors** | 10-12 | Spanish II A & B Advanced |
| ISA Spanish III A & B Advanced Honors** | 10 | Admission to ISA |
| Spanish IV A & B Honors*** | 11-12 | Spanish III A & B |
| Spanish V A & B Honors *** | 11-12 | Spanish IV A & B |
| AP Spanish Language & Culture A & B*** | 11-12 | Spanish IV A & B |
| ISA AP Spanish Lang & Culture A&B*** | 11 | Admission to ISA |
| AP Spanish Literature & Culture A&B*** | 12 | AP Spanish Language & Culture |
| ISA AP Spanish Lit & Culture A&B*** | 12 | Admission to ISA |
| Latin I A & B | 9-12 | |
| Latin II A & B | 9-12 | Latin I A & B |
| Latin III Honors A & B** | 10-12 | Latin II A & B |
| AP Latin*** | 11-12 | Latin III A & B |
| Latin V A & B Honors*** | 12 | AP Latin Vergil |
| Chinese I A & B | 9-12 | |
| Chinese II A & B | 9-12 | Chinese I A & B |
| Chinese III Honors A & B** | 9-12 | Chinese II A & B |
| Chinese IV Honors A & B*** | 9-12 | Chinese III A & B |
| AP Chinese Language & Culture A&B*** | 9-12 | Chinese IV or Native Speaker |
| Chinese V A & B*** | 9-12 | Chinese IV or Native Speaker |
| Chinese VI A & B*** | 11-12 | AP Chinese & Chinese V or Native Speaker |

AP Capstone Courses

To earn the AP Capstone Diploma, students must score a 3 or above on both the AP Seminar and AP Research exams as well as a 3 or above on four other AP exams of their choosing.

AP Seminar***

For Grades 11-12

Prerequisites: A prior AP Course is highly encouraged

In AP Seminar students will engage with complex academic and real-world issues, examining them through multiple lenses and considering multiple viewpoints. The topics may change from year to year depending on student and teacher interests, global and civic issues, academic questions, and concepts from other AP courses. Students will evaluate multiple viewpoints through several of the following lenses: cultural and social, artistic and philosophical, political and historical, environmental, scientific, futuristic, and ethical. Through inquiry and investigation, students will develop their own perspectives on complex issues and topics while honing their critical and creative thinking skills. During the course, students will complete a team research project and presentation, an individual research project and presentation, and an end of course exam in which they will analyze, compare and synthesize arguments.

AP Research***

For Grade 12

Prerequisites: AP Seminar; AP Statistics is strongly recommended

AP Research allows students to deeply explore an academic topic, problem or issues of individual interest. Through this exploration, students design, plan and conduct a year-long research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

Business Classes

Intro to Business & Tech A & B

For Grades 9 – 12

This course is the first in the Financial Management Services Career Pathway. This course provides an overview of business and technology skills required for today's business environment. Students will learn essentials for working in a business environment, managing a business and owning a business. The intention of this course is to prepare students to be successful both personally and professionally in an information-based society.

Financial Literacy A & B

For Grades 10-12

Prerequisite: Intro to Business & Tech A & B

This is the second course in the Financial Management Services Career Pathway. In this course, students will learn about career decisions, money management and consumer rights and responsibilities.

Banking, Finance & Insurance A & B

For Grades 11-12

Prerequisite: Financial Literacy or Jr/Sr Status

This course is the third course in the Financial Management Services Career Pathway. Using project-based instruction, students are introduced to the basics of the banking system, bank operating procedures, negotiable instruments and the deposit and credit functions of banks. Methods used for measuring the financial performance of banks are analyzed. Current issues and future trends in banking are examined. Students explore the major functions of bank employees by completing a flow-of-work simulation. Students formulate business and individual investment decisions by comparing and contrasting a variety of investment options. Students analyze annual reports, predict growth rates and chart trend lines.

Work-Based Learning A & B

For Grade 12

Prerequisite: Application required

Work based learning is an opportunity for students who work (paid or unpaid) to earn course credit for applying skills from their coursework. Students must average 5 hours per week and the position must directly relate to a course taken during high school.

Mentorship I & II A & B**For Grades 11-12****Prerequisite: Application required**

The course is for students who would like to assist in an administrative office at Walton. The course is designed to provide the student with skills required for successful performance in an administrative support position. This course will include training and work-based experience in a school office environment.

English

All students must earn 4 units of English to satisfy graduation requirements. Each course is designed for increasing complexity so that students will build on their learning each year. All GSE standards are incorporated in the rigorous curriculum developed at Walton High School. The comprehensive Sadlier vocabulary series is utilized to prepare students for the PSAT and SAT. All students are required to complete summer readings and assignments.

Ninth Literature/Composition A & B Honors****For Grade 9****Prerequisites: Teacher recommendation**

This honors-level class prepares able and ambitious readers and writers for AP and/or honors level English courses. Designed to emphasize critical thinking and analytical writing skills, the course includes the study of literature from various genres, writing assignments such as literary analyses, personal narratives, and persuasive essays, as well as advanced vocabulary and grammar. Additionally, students are required to read a minimum of 7 parallel and/or teacher-directed longer pieces of literary merit over the course of the year (including summer reading).

Ninth Literature/Composition A & B**For Grade 9**

This college preparatory level course readies students for challenging English courses throughout high school and emphasizes critical thinking skills. Students are expected to read literature from various genres, to write assignments such as literary analyses, personal narratives, and persuasive essays, as well as to complete college preparatory vocabulary and grammar. Additionally, students must read a minimum of 6 parallel and teacher-directed longer pieces of literary merit over the course of a year (including summer reading).

Ninth Literature/Composition ELL A & B**For Grade 9****Prerequisites: Identified ELL**

This course contains the same curricular objectives as Ninth Lit/Comp. Adaptation in presentation is made to accommodate the needs of ELL students. This course is designed for the college-bound student.

AP Language/World Lit A & B*****For Grade 10****Prerequisites: 1 unit of 9th Lit/Comp & teacher recommendation**

AP Language is designed for high-achieving students who are willing to read and write extensively. AP Language differs from AP Literature in its focus on prose writing, historical and contemporary fiction and nonfiction. In addition, students are trained to understand a writer's choice in diction, syntax, and tone. Students are also asked to write in a wide variety of forms, including narrative, expository, and argumentative. Students also take on a variety of subjects ranging from personal experience to political analysis, from imaginative literature to popular culture.

World Literature/Composition A & B Honors****For Grade 10****Prerequisites: 1 unit of 9th Lit/Comp & teacher recommendation**

This honors-level class prepares able and ambitious readers and writers for an AP or honors level track throughout high school English. Designed to emphasize critical thinking and analytical writing skills, the course covers world literature including poetry, short stories novels, drama and mythology. Students complete a research paper, a variety of writing assignments, and an advanced study of vocabulary and grammar. Additionally, students are required to read a minimum of 7 parallel and teacher-directed longer pieces of literary merit over the course of the year (including summer reading).

World Literature/Composition A & B**For Grade 10****Prerequisites: ½ unit of 9th Lit/Comp**

This is a college preparatory course which develops descriptive, narrative, expository, and persuasive writing skills, including grammar, mechanics, and usage. Students study a variety of authors and selections from world literature, including poetry, short stories, novels, drama and mythology. Additionally, students are required to read a minimum of 6 parallel and teacher-directed longer pieces of literary merit over the course of the year (including summer reading).

World Literature/Composition ELL A & B**For grade 10**

Prerequisites: Identified ELL & ½ unit of English credit

This course contains the same curricular objectives for World Literature/Composition. Adaptation in presentation is made to accommodate the needs of ELL students. This course is designed for college bound students.

AP Language/American Literature A & B *****For grade 11****Prerequisites: 1 unit of Ninth Lit, 1 unit World Lit & Teacher rec**

The AP Language/American Literature course is designed to build upon the writing and analysis skills learned in Honors World Literature. The focus of the course is writing, historical and contemporary fiction, and non-fiction. Students are trained to understand writer's choices in diction, syntax, and tone and to write in a wide variety of forms, including narrative, expository, and argumentative subjects ranging from personal experience to political analysis, and from imaginative literature to popular culture. This course fulfills the graduation requirement for American literature.

American Literature (LA) A & B Honors****For grade 11****Prerequisites: AP Language/World Literature A & B**

The Honors American Literature (LA) course is designed to build upon writing analysis skills learned in AP Language. Designed to emphasize critical thinking and analytical writing skills, the course is a chronological study of American Literature. Students complete assignments such as a research paper, literary analyses, and argumentative essays, as well as advanced vocabulary and language activities. Students will take the Georgia Milestones EOC at the end of the course.

American Literature A & B Honors****For grade 11****Prerequisite: 1 unit of English & teacher recommendation**

This honors level class prepares able and ambitious readers and writers for continued study in AP and honors English classes. Designed to emphasize critical thinking and analytical writing skills, the course is a chronological study of American Literature. Students complete assignments such as a full-length research paper, literary analyses, and argumentative essays as well as advanced vocabulary and language activities. Additionally, students are required to read a minimum of 7 parallel and/or teacher-directed longer pieces of literary merit over the course of the year (including summer reading). Students will take the Georgia Milestones EOC at the end of the course.

American Literature A & B**For grade 11****Prerequisite: 1 unit of Ninth Lit & ½ unit World Lit/Comp & teacher recommendation**

This is a college preparatory course, which covers American Literature chronologically. Students complete assignments such as a full-length research paper, literary analyses, and argumentative essays as well as vocabulary and grammar. Additionally, students are required to read a minimum of 6 parallel and teacher-directed longer pieces of literary merit over the course of the year (including summer reading). Students will take the Georgia Milestones EOC at the end of the course.

British Literature/Composition A & B Honors****For grade 12****Prerequisite: 1 unit of Ninth Lit, 1 Unit Am Lit, 1 additional unit of English & teacher rec.**

This is an accelerated college preparatory course designed for the student who has a serious interest in interpreting literature. The course offers opportunities to improve reading, writing, speaking/listening, and critical thinking skills through the study of literary selections from British writers and is organized chronologically. Students complete assignments such as a research paper, literary analyses, and argumentative essays and advanced vocabulary and grammar. Additionally, students are required to read a minimum of 7 parallel and teacher-directed longer pieces of literary merit over the course of the year (including summer reading).

British Literature A & B**For grade 12****Prerequisite: 1 unit of Ninth Lit, ½ unit World Lit, 1 unit of American Lit**

This is a college preparatory course, which readies students for challenging English courses throughout college and emphasizes critical thinking skills. The course covers British literature chronologically, and students must complete writing assignments such as a full-length research paper on a literary topic, literary analyses and argumentative essays as well as vocabulary and grammar. Additionally, students are required to read a minimum of 6 parallel and teacher-directed longer pieces of literary merit over the course of the year (including summer reading).

Dramatic Writing (Film, Television, and Theater 1)**For grade 12****Prerequisite: 1 unit Ninth Lit, ½ unit World Lit and 1 unit American Lit**

This college preparatory course develops skills necessary in creating and developing dramatic writing for theatrical media with special emphasis on film and television. Students will focus on the development of a "writerly stance" by reading, viewing, and analyzing texts and visual media from a writer's point of view with a focus on understanding the construction process and including the application of conventions of grammar and usage. Students must complete multiple writing

assignments including a full-length research paper. Note: This course meets fourth English Language Arts core requirement.

AP Literature A&B***

For grade 12

Prerequisites: 1 unit of 9th, World, and AP Lang. and teacher rec.

AP Literature/Composition is a college level course that focuses on the reading and analysis of literary works, the writing of critical essays, independent learning, and extensive discussion. The course is a novel-based course along with an intensive study of poetry. Works studied will range from sixteenth century literature through contemporary literature. Composition is the main focus in this class in conjunction with the understanding of style found in literature. This course conforms to the College Board recommendations; a syllabus has been approved and is on file with College Board.

Mythology Honors**

For grade 11-12

This one semester honors level elective course introduces the importance of myths and tales of classical mythology, focusing on comparative study of plot, characters, themes and figurative devices. The course emphasizes the following: critical and analytical skills, vocabulary development, a study of the influences of Greek, Roman and Norse word origins on the English language, and composition. The study of the relationship between people and their societies is emphasized, along with the impact of mythology on the literary world. This course is an academic elective and does not satisfy English requirements for graduation.

Journalism/Yearbook

For grades 9-12

This is a yearlong class designed for college bound students interested in learning the principles of design, writing and photography necessary to produce the yearbook. Students enrolled in the class are expected to work independently and meet deadlines throughout the year. The class requires outside time for completion of spreads as well as pictures of events that occur throughout the year. This course is an academic elective and does not satisfy English requirements for graduation.

| | 9th | 10th | 11th | 12th |
|--|--|--|--|--|
| Honors/AP | 9 th Lit/Comp Honors *80 or below = possibility of moving to on-level 10th World Lit | AP Language/Comp (see below) 10 th World Lit/Comp Honors *C or lower = move to on level Am Lit | American Lit/Comp (LA) Honors *C or lower = move to on level Eng. Lit *AP Language/American Lit (see below) OR American Lit/Comp Honors | AP English Lit/Comp |
| Honors | 9 th Lit/Comp Honors *80 or below = possibility of moving to on-level 10th World Lit | 10 th World Lit/Comp Honors *C or lower = move to on level Am Lit | American Lit/Comp Honors | British Lit/Comp Honors OR AP English Lit/Comp |
| College Prep | 9 th Lit/Comp A = possibility of moving to Honors World Lit/Comp | 10 th World Lit/Comp | American Lit/Comp | British Lit/Comp Or Dramatic Writing |
| Small Group (IEP placement) | 9 th Lit/Comp (SG) | World Lit/Comp (SG) | American Lit/Comp (SG) | British Lit/Comp (SG) |
| 4 Units of English Required. Must include: *1 unit of 9th Lit/Comp And *1 unit of American Lit/Comp or AP Lang/Amer. Lit | | NOTES: *Students in Honors 9 th Lit/Comp have the possibility of taking AP Language in 10 th grade OR 11 th grade depending on their English grades. Students cannot take AP Language in both 10th and 11th grades. *For each English class, there are a minimum of three parallel readings each semester. *The research paper is written during the 2 nd semester of honors World Lit and all American Literature classes as well as 1 st semester of all British Literature classes and Dramatic Writing. A research paper is also a component of AP English Language and Composition and AP English Literature and Composition. | | |

Mathematics

Four units of mathematics study is required for graduation. A graphing calculator (TI-84 or higher) is required for ALL math classes. There are a limited number of calculators available for student check out, but it will be advantageous to purchase for student use.

GSE Algebra 1 A & B

For grade 9

Prerequisite: Math 8 & teacher recommendation

This is the first course in a sequence of courses designed to provide students with a rigorous program of study in mathematics. It includes polynomial and rational expressions, basic functions and their graphs, simple equations, quadratic, linear and exponential functions, sample statistics, and curve fitting. It requires students to:

- Explore functions.
- Solve equations and operate with radical, polynomial and rational expressions.
- Investigate piecewise and quadratic functions, using numerical, analytical, and graphical approaches, focusing on the use of these functions in problem-solving situations.
- Use counting techniques and determine probability.
- Demonstrate understanding of data analysis by posing questions to be answered by collecting data.
- Organize, represent, investigate, interpret, and make inferences from data. They will use regression to analyze data and to make inferences.

Students will take the state Georgia Milestones EOC at the end of the course.

Foundations of Algebra 93 A&B

For grade 9

Prerequisite: Math 8 & teacher recommendation (no waivers accepted)

Foundations of Algebra is a first-year high school mathematics course option for students who have completed mathematics in grades 6-8 yet will need substantial support to bolster success in high school mathematics. The course is aimed at students who have reported low standardized test performance in prior grades and/or have demonstrated significant difficulties in previous mathematics classes.

Foundations of Algebra will provide many opportunities to revisit and expand the understanding of foundational algebra concepts, will employ diagnostic means to offer focused interventions, and will incorporate varied instructional strategies to prepare students for required high school mathematics courses. The course will emphasize both algebra and numeracy in a variety of context including number sense, proportional reasoning, quantitative reasoning with functions and solving equations and inequalities. This is a core mathematics course and does fulfill a mathematics requirement for graduation. Students in this course will take Foundations of Algebra A and Foundations of Algebra B during fall semester and then Algebra 1 A 93 and Algebra 1 B 93 during spring semester.

GSE Algebra 1 93 A&B

For grade 9

Prerequisite: Math 8 & teacher recommendation (no waivers accepted)

This course includes the same topics of study included in GSE Algebra but places more emphasis on basic fundamental processes and practice. This course will place more emphasis on basic problem solving and mathematical concepts. Students will take the state Georgia Milestones EOC at the end of the course.

GSE Alg 1 Support A & B

For grade 9

Prerequisite: concurrent enrollment in GSE Algebra I A&B & teacher recommendation

The purpose of the Math Support class is to address the needs of students who have traditionally struggled in mathematics by providing the additional time and attention they need in order to successfully complete their regular grade-level mathematics course. Mathematics Support is an elective class that will be taught concurrently with a student's regular GSE Alg I course. This course is an academic elective credit only and does not fulfill the mathematics requirements for graduation.

GSE Honors Algebra 1 A&B****For grade 9****Prerequisite: Advanced Math 8 & teacher recommendation**

This course includes the same topics of study included in GSE Algebra but places more emphasis on formal processes and rigor. This course will place more emphasis on critical thinking and analysis of mathematical concepts. Students will take the state Georgia Milestones EOC at the end of the course.

GSE Geometry A&B**For grade 10****Prerequisite: GSE Algebra 1 & teacher recommendation**

This is the second in a sequence of courses designed to provide students with a rigorous program of study in mathematics. It includes fundamentals of proof, properties of polygons, right triangles, right triangle trigonometry, properties of circles, probability, and quadratic functions. It requires students to:

- Prove geometric theorems
- Make geometric constructions
- Understand similarity and congruence
- Apply trigonometric ratios to right triangles
- Investigate circles including chords, arc length and area of sector
- Understand independence and conditional probability

GSE Geometry 103 A&B**For grade 10****Prerequisite: GSE Alg 1 93, teacher rec (no waivers accepted)**

This course includes the same topics of study included in GSE Geometry but places more emphasis on fundamental processes and practice. This course will place more emphasis on basic problem solving and mathematical concepts.

GSE Honors Geometry A&B****For grade 9-10****Prerequisite: GSE Honors Alg 1 or GSE Alg 1 & Teacher recommendation**

This course includes the same topics of study included in GSE Analytic Geometry but places more emphasis on formal processes and rigor. This course will place more emphasis on critical thinking and analysis of mathematical concepts.

GSE Accelerated Geometry/Algebra 2 A & B****For grades 9-10****Prerequisite: GSE Accelerated Alg/Geom & Teacher recommendation**

This is the second in the sequence of courses designed to ensure that students are prepared to take higher-level mathematics courses during their high school career, including AP Calculus AB, AP Calculus BC, and AP Statistics. It requires students to:

- Work with rational, irrational and complex numbers
- Expand knowledge of functions to include polynomial, rational and radical
- Develop quadratic expressions, equations and functions
- Compare quadratics to linear and exponential relationships and functions
- Create mathematical models and solve contextual problems
- Students will complete a summer packet which is due the first day of school.

GSE Algebra 2 A&B**For grade 11****Prerequisite: GSE Geom A & B or GSE Geom 103 & teacher recommendation**

This is the third in a sequence of mathematics courses designed to ensure that students are college and work ready. It requires students to:

- Analyze polynomial functions of higher degree.
- Explore logarithmic functions as inverses of exponential functions.
- Solve a variety of equations and inequalities numerically, algebraically, and graphically.
- Use system of equation and linear programming to represent and solve problems
- Solve problems by interpreting a normal distribution as a probability distribution.
- Design and conduct experimental and observational studies.
- Rational, absolute value and piecewise functions.
- Radicals and Rational Exponents

GSE Algebra 2 113 A&B**For grade 11****Prerequisite: GSE Geom 103 A & B, teacher rec (no waivers accepted)**

This course includes the same topics of study included in GSE Algebra 2 but places more emphasis on fundamental processes and practice. This course will place more emphasis on basic problem solving and mathematical concepts.

GSE Honors Algebra 2 A&B****For grade 10-11****Prerequisite: GSE Hon Geom or GSE Geom & teacher rec**

This course includes the same topics of study included in Algebra II but places more emphasis on formal processes and rigor. This course will place more emphasis on critical thinking and analysis of mathematical concepts.

GSE Accelerated Precalculus BC A&B****For grade 10-11****Prerequisite: GSE Acc Geo/Algebra 2 or GSE Honors Algebra 2 & Teacher rec**

This is the third in the sequence of mathematics courses designed to ensure that students are prepared to take higher level mathematics courses during their high school career, including AP Calculus AB, AP Calculus BC, and AP Statistics. It requires students to:

- Continue the study of conics, including systems of quadratic equations and using the discriminant
- Analyze and use trigonometric functions, their graphs, and their inverses
- Use trigonometric identities to solve problems and verify equivalency statements
- Solve trigonometric equations analytically and with technology
- Solve problems and verify equivalency statements using sum and difference formulas, double-angle and half-angle formulas, sum-to-power rule and power-to-sum rule
- Use complex numbers in trigonometric form
- Understand and use vectors in 2-space and 3-space. Use dot product and cross-product to solve problems
- Use sequences and series
- Explore parametric representations of plane curves in 2 and 3-space
- Explore polar equations
- Explore matrices and use matrices in applications
- Law of Sines/Cosines
- Understand and use vectors
- Use binomial theorem to calculate probability and expand binomials
- Explore set theory
- Develop the use of proofs, including direct proofs, indirect proofs and proof by induction
- Expand knowledge of rational functions, including partial fraction decomposition

GSE Accelerated Precalculus AB A&B****For grade 10-11****Prerequisite: GSE Acc Geo/Algebra 2 or GSE Honors Algebra 2 & Teacher recommendation**

This is the third in the sequence of mathematics courses designed to ensure that students are prepared to take higher level mathematics courses during their high school career, including AP Calculus AB and AP Statistics. It requires students to:

- Continue the study of conics, including systems of quadratic equations
- Development and application of the Unit Circle
- Analyze and use trigonometric functions, their graphs, and their inverses
- Find areas of triangles using trigonometric relationships
- Use trigonometric identities to solve problems and verify equivalency statements
- Solve trigonometric equations analytically and with technology
- Solve problems and verify equivalency statements using sum and difference formulas, double-angle and half-angle formulas
- Use complex numbers in trigonometric form
- Understand and use vectors

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- Explore polar equations
- Explore matrices and use matrices in applications
- Find the probability of compound events using probability rules
- Understand and use expected value
- Law of Sines/Cosines

GSE PreCalculus A & B

For grades 11-12

Prerequisites: GSE Algebra 2 & teacher recommendation

This is a fourth-year mathematics course designed to prepare students for calculus and other college level mathematics courses. It requires students to:

- Investigate all four of the conic sections
- Develop and apply the Unit Circle
- Analyze and use trigonometric functions, their graphs and their inverses
- Solve trigonometric equations
- Use trigonometric functions to solve problems and verify equivalency statements
- Apply the sum and difference formulas and double angle formulas
- Explore matrices and use matrices in applications
- Find the probability of compound events using probability rules
- Understand and use expected value

AP Calculus AB A & B***

For grade 11-12

Prerequisite: Acc Precalc BC, Acc Precalc AB or PreCalc & teacher recommendation

This course conforms to the College Board topics for the Advanced Placement Calculus AB Examination. Topics covered include functions, graphs, limits, derivatives, differential calculus, and integral calculus.

AP Calculus BC A & B***

For grade 11-12

Prerequisite: AP Calculus AB or Acc Precalculus BC & Teacher recommendation

This course conforms to the College Board topics for the Advanced Placement Calculus BC Examination. Topics covered include functions (including parametric, polar and vectors), graphs, limits, derivatives, integrals, polynomial approximation and series.

Multivariable Calculus A & B***

For grade 11 or 12

Prerequisites: AP Calculus BC

This course is a continuation of calculus and includes topics such as vectors, vector functions, partial derivatives, multiple integrals and vector calculus.

AP Statistics ***

For grades 10-12

Prerequisites: GSE Hon Geom or Accelerated Geom/Alg II & teacher rec

This course conforms to the College Board topics for the Advanced Placement Statistics Examination. Students learn to make decisions based on real-world data. They learn to plan studies and experiments using probability and simulation models to anticipate and predict patterns in data. Extensive use is made of calculators with statistical capabilities. This course covers four major themes: Exploratory analysis, planning a study, probability and statistical inference.

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| 9 th | 10 th | 11 th | 12 th |
|---|---|--|---|
| Accel GSE Geo/Alg 2 | GSE Accel PreCalc BC | AP Calculus BC | Multivariable Calculus |
| | GSE Accel PreCalc AB | AP Calculus AB | AP Calculus BC |
| GSE Honors Geometry | GSE Honors Algebra 2 | GSE Accel PreCalculus AB | AP Calculus AB |
| GSE Geometry | GSE Algebra 2 | GSE PreCalc | AP Calculus AB OR AP Statistics |
| GSE Honors Algebra 1 | GSE Honors Geometry & GSE Honors Algebra 2 | GSE Accel PreCalculus AB | AP Calculus AB |
| | GSE Honors Geometry | GSE Honors Algebra 2 | GSE Accel PreCalculus AB |
| GSE Algebra 1 | GSE Geometry | GSE Algebra 2 | GSE PreCalculus |
| GSE Algebra 1 & Algebra 1 Support | GSE Geometry | GSE Algebra 2 | GSE PreCalculus OR 4 th year option |
| Foundations of Algebra (fall) & GSE Algebra 1 93 (spring) | GSE Geometry 103 | GSE Algebra 2 113 | GSE PreCalculus OR 4 th year option |
| Foundations of Algebra (SG) & GSE Algebra 1 (SG) | GSE Geometry (SG) & Geometry Support (SG) | GSE Algebra 2 (SG) & Algebra 2 Support (SG) | Advanced Math Decision Making (SG) |
| | AP Statistics can be taken any time after successful completion of GSE Accel Geo/Alg 2 or GSE Honors Geometry as an elective | | |

Fine Arts

Our Fine Arts department includes visual and performance groups. Students must audition in order to register for a performance group. For the class of 2012 and beyond, a total of three units is required from Career Technical Education, World Language, Latin and/or Fine Arts.

The Fine Arts department offers typical freshman level classes in band and orchestra. In orchestra and band, students may audition into an upperclassmen level orchestra/band. If accepted, students are expected to behave and perform as a junior or senior at Walton. This includes audition preparation, attendance, attitude, etc.

Visual Arts Comprehensive

For grades 9-12

This one semester class is open to any student with an interest in art and serves as the first semester in the **Visual Arts Pathway**. Introduces art history, criticism, aesthetic judgment, and studio production. Emphasizes the ability to understand and use elements and principles of design through a variety of media, processes, and visual resources, which may include pencil, charcoal, pastels, clay, and related media. Explores master artworks for historical and cultural significance.

Visual Arts: Drawing I

For grades 9-12

Prerequisite: Visual Arts Comprehensive

This one-semester course, which is the second semester in the **Visual Arts Pathway**, explores a variety of drawing techniques and media with an emphasis on developing drawing skills. Examines solutions to drawing problems through student drawings and those of other artists. Develops critical analysis skills for responding to master drawings. Covers western and non-western cultures. Homework is required.

Visual Arts: Drawing & Painting I

For grades 10-12

Prerequisite: Drawing I

This course, which serves as the second year in the **Visual Arts Pathway**, introduces drawing and painting techniques and a variety of drawing and painting media. Emphasizes development of drawing and painting skills from observation and utilizes problem solving skills to achieve desired results. Stresses critical analysis of master paintings and drawings of different styles and historical periods. Homework is required.

Visual Arts: Drawing II

For grades 10-12

Prerequisite: Draw & Paint

This course, which serves as the third year in the **Visual Arts Pathway**, enhances skills developed in Drawing I and provides further exploration of drawing media. It reinforces basic drawing and critical analysis skills for responding to master drawings of different historical styles and periods. Examines solutions to drawing problems through student drawings and those of other artists. Homework is required.

AP Art & Design: General A & B***

For grades 11-12

Prerequisite: Teacher Recommendation

This year-long class is designed for serious art students who may pursue a career in the visual arts field. This class requires significant out of class time and commitment. A portfolio can be done in one of three areas: Drawing, 2D design or 3D design. Drawing, printmaking, painting, mixed media, ceramics, sculpture, and or photography are the major areas of study. Personal artistic style development is encouraged.

Bel Canto

For grades 10-12

Prerequisite: Audition

Bel Canto is an intermediate treble chorus for students who have mastered the choral, vocal, music reading, and rehearsal skills learned in 9th Grade Treble Choir. Students in Bel Canto learn music independently with an emphasis on performing at a high level of choral artistry. Members of Bel Canto are eligible to participate in the Walton Tour Choir. Bel Canto performs four concerts a year and is evaluated at the Georgia Music Educators Association Performance Evaluation. These performances are extensions of chorus class and attendance is expected. Bel Canto is a year-long course. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

Varsity Treble Ensemble**For grades 11-12****Prerequisite: Audition**

This is an advanced chorus for alto and soprano voices. Students must enroll Fall and Spring semesters and are expected to purchase concert attire. Students in this choir continue to develop vocal, choral and music reading skills and demonstrate a commitment to the choral arts. This choir performs four concerts a year and is evaluated at the Georgia Music Educators Association Performance Evaluation. These performances are extensions of chorus class and attendance is expected. Varsity Treble Ensemble strives for excellence, individual growth and individual responsibility, and teamwork. Varsity Treble Ensemble is a year-long course. Members are eligible to participate in Walton Tour Choir. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

Men's Ensemble**For grade 9-12****Prerequisite: Audition**

This is a chorus for tenor and bass voices. It is one full credit in the Fine Arts Pathway. To be successful in the class, students must be able to: phonate a voiced sound; match and maintain pitch; demonstrate standing and sitting posture appropriate for choral singing; be able to learn to read music and follow the director. According to county requirements, students in this choir are evaluated in the spring at the Georgia Music Educators Association Large Group Performance Evaluations. Singing with an appropriate choral tone, with correct pitch, rhythm, diction, blend, choral posture, following director and reading music are part of this evaluation. Chorus is a co-curricular class and students have the opportunity to earn a letter in Chorus. Men's Ensemble performs four concerts a year. These performances are extensions of chorus class and attendance is expected. Students will need to purchase concert attire and parents are encouraged to be active members of the Chorus Booster Club. Men's Ensemble is a year-long course and 10th-12th grade members are eligible to participate in Walton Tour Choir. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

9th Grade Treble Choir**For grade 9-12****Prerequisite: Audition**

This is an introductory chorus is for students with treble voices (soprano, alto) in ninth grade, new to Walton chorus, or upperclassmen needing additional intermediate level instruction and serves as one full credit in the Fine Arts Pathway. To be successful in the class, students must be able to: phonate a voiced sound; match and maintain pitch; demonstrate standing and sitting posture appropriate for choral singing; be able to learn to read music and follow the director. According to county requirements, students in this choir are evaluated in the spring at the Georgia Music Educators Association Large Group Performance Evaluations. Singing with an appropriate choral tone, with correct pitch, rhythm, diction, blend, choral posture, following director and reading music are part of this evaluation. Chorus is a co-curricular class and students have the opportunity to earn a letter in Chorus. 9th Grade Treble Choir perform three concerts a year and at the homecoming pep rally. These performances are extensions of chorus class and attendance is expected. Students will need to purchase concert attire and parents are encouraged to be active members of the Chorus Booster Club. 9th Grade Treble Choir is a year-long course. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

Select Women's Vocal Ensemble**For grades 10-12****Prerequisite: Audition**

Advanced choral ensemble for female vocal students who demonstrate advanced proficiency in music reading, choral tone and rehearsal skills. Students in this choir are expected to practice independently outside class and encouraged to audition for All-State Chorus. Membership in Select Women's Ensemble requires additional time and commitment in rehearsals and performances. The purchase of concert attire as well as performances outside the school day are required. Auditions are held in April and students must participate in Walton Chorus for one year prior to auditioning. Select Women's Vocal Ensemble is a year-long course. Members are eligible to participate in Walton Tour Choir. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

A Cappella**Prerequisite: Audition**

Walton's most advanced choral ensemble consisting of students with bass, tenor, alto and soprano voices who demonstrate advanced proficiency in music reading, choral tone and rehearsal skills. Membership in A Cappella requires additional time commitment in rehearsals and performances. A Cappella performs GMEA Class A literature and represents Walton in school and community events. Auditions are held in April and students must participate in Walton Chorus for one year prior to auditioning. A Cappella is a year-long course. Members are eligible to participate in Walton Tour Choir. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

Concert Bands

For grades 9-12

Prerequisite: Audition

Concert Band provides opportunities to develop performance skills on a wind or percussion instrument. This course is the first year in the Fine Arts Pathway. This class emphasizes performances and production, stresses individual progress within group experiences, and may include analysis, historical and cultural influences, improvisation, and appreciation of music. Students have organized objectives for self-paced progress. Rising freshmen students who do not elect to take the spring audition at the end of their 8th grade year will be placed in one of the Concert Band classes. Participation in concert performances outside of regular class hours is expected. Concert Band 2 is a year-long course that performs GMEA level II and III music. Concert Band 1 is a year-long course that performs GMEA Level III and IV music. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

Symphonic Band

For grades 9-12

Prerequisite: Audition

This performance-based class provides opportunities for advanced-level performers to increase, develop and refine performance skills and precision on a wind or percussion instrument. The course covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music, and appreciation of music at advanced levels of understanding. Students have organized objectives for self-paced progress with individual learning strategies and ensemble experiences. Individual growth and achievement are encouraged through participation in adjudicated solo and ensemble festivals, district honor bands, and private lessons. Participation in rehearsals and concert performances outside of regular class hours is expected. Symphonic Band is a year-long course that performs GMEA Level V and VI music. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

Wind Symphony

For grades 9-12

Prerequisite: Audition

This performance-based class provides opportunities for students to develop master skills in music reading and performance techniques. A variety of mastery band literature of various historical and contemporary styles and genres is performed. Students extend their knowledge of music theory, analysis of form, and exploration of compositional and improvisational techniques of instrumental music. Individual growth and achievement are encouraged through participation in adjudicated solo and ensemble festivals, district honor bands, community bands, community orchestras, and private lessons. Participation in rehearsals and concert performances outside of regular class hours is expected. Wind Symphony is a year-long course that performs GMEA Level VI and collegiate-level music. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

Percussion

For grades 9-12

Prerequisite: Audition

In Advanced Instrumental Ensemble students are selected by director's recommendation. Offers advanced-level performers an alternative ensemble experience to large band and orchestra. Emphasizes the performance style and literature of the instrumental chamber group medium. Includes percussion ensemble and techniques. Covers performance and production, analysis and theoretical studies, creative aspects of music, historical and cultural influences, and music appreciation. Participation in rehearsals and concert performances outside of regular class hours is expected. Percussion is a year-long course. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

On-Level Orchestras (Dorian, Aeolian, Locrian)**For grade 9-12****Prerequisite: Audition/Completion of the Intermediate Orchestra Class in Middle School**

On-level orchestras are intermediate string ensembles for students who play violin, viola, cello, or double bass. This course counts for the Fine Arts Pathway. The techniques of string playing are taught within the context of musical performance (GMEA Level II-III difficulty). Rehearsals are held during the curricular school day, with an occasional afternoon rehearsal before concerts. On-level orchestras perform four concerts each year include Georgia Music Educators Association Large Group Performance Evaluation. These performances are extensions of class and attendance is expected. Orchestra is a co-curricular class and students have the opportunity to earn a letter in orchestra. Orchestra is a year-long courses. Please note that orchestra instruments are not provided by the school and that purchasing a uniform is required. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

Sinfonia**For grades 9-12****Prerequisite: Audition**

Sinfonia is an advanced orchestra for violin, viola, cello and double bass students. Admission to this group is by audition only. Advanced techniques of string players are stressed within the context of music performance (Georgia Level IV-V music difficulty). Rehearsals are held during the curricular school day, with an occasional afternoon rehearsal before concerts. Performances are usually in the evening; private lessons are recommended. Please note that orchestra instruments are not provided by the school and that purchasing a uniform is required. Sinfonia is a yearlong course. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

Philharmonia**For grades 9-12****Prerequisites: Audition**

Philharmonia is an advanced orchestra for violin, viola, cello and double bass students. Admission to this group is by audition only. This award-winning group performs music with advanced techniques of string playing (Georgia Level V-VI music difficulty). Woodwind, brass and percussionists from Wind Ensemble may join the strings to form a full orchestra. After school or evening rehearsals are required in addition to evening concerts. Please note that orchestra instruments are not provided by the school and that purchasing a uniform is required. Private lessons are strongly recommended. Philharmonia is a yearlong course. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

Chamber Orchestra**For grades 9-12****Prerequisite: Audition**

Chamber Orchestra is Walton's most advanced orchestra. Admission to this group is by audition only. This award-winning group performs standard, professional, orchestral, string and chamber music at the highest level of difficulty. Woodwind, brass and percussion students from Wind Symphony may join the strings to form a full orchestra. After school or evening rehearsals are required in addition to evening concerts. Please note that orchestra instruments are not provided by the school and that purchasing a uniform is required. Private lessons are recommended. Chamber Orchestra is a yearlong course. There is a participation fee to defray costs of music, uniforms, and instructional expenses.

AP Music Theory*****For grades 11-12****Prerequisites: Teacher recommendation**

AP Music Theory conforms to College Board topics for the Advanced Placement Music Theory Examination. It covers terminology and notational skills, writing skills, visual analysis and aural skills, and stresses ear training and compositions practice. This class analyzes and composes music from the classical period so that students can analyze its influence on current music trends.

Technical Theater**For grades 9-12**

This class introduces technical considerations of play production; covers set construction, scene painting, lighting and settings, make-up and costumes. The students will learn the basic principles of stage design and construction. The class serves as the prerequisite course for other technical courses. This class utilizes and trains students on new technology related to the theatre. This course is an academic elective and does not satisfy English requirements for graduation. This is a one-semester elective.

Acting I**For grades 9-12**

Introduces the acting process and the role of the actor in various styles/methods with a focus on scene study. Stresses developing imagination, observation, concentration powers, and self-discipline. Includes developing physical and vocal control while transmitting emotions, convictions, and ideas; enhances self-confidence and self-awareness. Theater is used as a means to encourage cooperative learning, teamwork, organization, and leadership skills. The class allows all students the opportunity to perform on a regular basis. This course is an academic elective and does not satisfy English requirements for graduation. This is a one-semester elective.

International Spanish Academy

The International Spanish Academy is a rigorous program of study for students who are learning Spanish as a foreign language. Students must apply in the spring of the 8th grade year. Those accepted will take 4 years of Spanish as well as 4 honors or AP level content area courses that include a delivery component in Spanish.

ISA Spanish II A&B: Culture, Comparisons & Communication**For grade 9**

Prerequisite: Admission to ISA, Spanish I & concurrent enrollment in 9th Lit Honors and AP Human Geography

The International Spanish Academy Level II course focuses on the rapid development of communicative competence in the target language and understanding and comparing the cultures of the Spanish speaking world. The major means of communication between the students and instructors will be in Spanish. The philosophy of the ISA program is that the students will use the language to learn it instead of learning the language to use it.

ISA Spanish III Advanced A&B: The Humanities-Art & History****For Grade 10**

Prerequisites: ISA Spanish II & concurrent enrollment in ISA AP Government/ISA Honors Microeconomics

The International Spanish Academy Spanish III Advanced course is an extremely accelerated course designed to complete the expectations of level III & IV in one year. The language skills and communicative competence will continue to rapidly develop through the study of the Humanities with an emphasis on Art and History of the Spanish speaking world.

ISA AP Spanish Language A&B*****For grade 11**

Prerequisite: ISA Spanish III Adv & Admission to ISA

This course conforms to the College Board topics for the Advanced Placement Spanish Language Examination. It emphasizes the ability to comprehend formal and informal spoken Spanish, to acquire the vocabulary and grasp of structure to read newspapers, magazines and Hispanic literature to compose expository passages, and to speak accurately and fluently. The major means of communication is in the target language. This course will also maintain its commitment to and collaboration with the Ministry of Education of Spain as a course within Walton's International Spanish Academy.

ISA AP Spanish Literature A&B*****For grade 12**

Prerequisite: ISA AP Spanish Language

This course conforms to College Board required authors and selected works for the Advanced Placement Spanish Literature Examination. It emphasizes the ability to understand a lecture in Spanish and discuss literary topics in Spanish, to read Hispanic literary texts in all genres, and to analyze critically the content of literary works, orally and in writing using appropriate terminology. This course will also maintain its commitment to and collaboration with the Ministry of Education of Spain as a course within Walton's International Spanish Academy.

ISA Ninth Literature/Composition A&B Honors****For grade 9**

Prerequisites: Admission to ISA program & Spanish I credit

This honors-level course prepares able and ambitious readers and writers for AP and honors English classes throughout high school. Designed to emphasize critical thinking and analytical writing skills, the course covers literature from various genres, writing assignments such as literary analyses, personal narrative, and persuasive essays. Additionally, students study advanced vocabulary and grammar and read a minimum of 10 parallel and teacher directed longer pieces of literary merit over the course of the school year (including summer readings). This class includes a Spanish language component and collaborates with the Spanish II International Spanish Academy class.

This course conforms to the College Board topics for the Advanced Placement Government Examination. The AP Government program is a heavily case study based analysis of our political system equivalent to most introductory level college courses in political science. Topics covered include federalism, separation of powers, influences on the formulation and adoption of the Constitution, political beliefs, political parties and elections, interest groups, institutions and policy processes, and civil liberties and civil rights. This course will be taught in both English and Spanish. It will maintain its commitment to the Ministry of Education of Spain as a course within the International Spanish Academy.

ISA Honors World Literature/Composition A & B **

For Grade 10

Prerequisites: ISA 9th Lit/Comp Honors

This honors-level class prepares able and ambitious readers and writers for an AP or honors level track throughout high school English. Designed to emphasize critical thinking and analytical writing skills, the course covers world literature including poetry, short stories novels, drama and mythology. Students complete a variety of writing assignments and advanced vocabulary and grammar. Additionally, students are required to read a minimum of 7 parallel and teacher-directed longer pieces of literary merit over the course of the year (including summer reading). This class includes a Spanish language component and collaborates with the Spanish III/IV International Spanish Academy course.

ISA AP United States History A&B***

For grade 11

Prerequisite: ISA AP Govt & ISA Spanish III

This course conforms to the College Board topics for the Advanced Placement United States History Examination. It covers discovery and settlement, colonial society, the American revolution, Constitution and New Republic, Age of Jefferson, Nationalism, Sectionalism, Territorial Expansion, Civil War, Reconstruction, Industrialization, progressive Era, World War I, Depression, New Deal, World War II, The Cold War through modern times. This course will be taught primarily in Spanish.

ISA AP Literature A&B***

For grade 12

Prerequisites: 1 unit 9th lit, 1 unit of Am Lit, 1 unit Eng Lit, all ISA Spanish courses and teacher rec.

AP Literature/Composition is a college level course that focuses on the reading and analysis of literary works, the writing of critical essays, independent learning, and extensive discussion. The course is a novel-based course along with an intensive study of poetry. Works studied will range from sixteenth century through contemporary literature. Composition is also a main focus in this class in conjunction with the understanding of style found in literature. This course conforms to the College Board recommendations; a syllabus has been approved and is on file with College Board. This class is the final content course of the ISA and will be conducted in both English and Spanish

| 9 th | 10 th | 11 th | 12 th |
|---|---|-----------------------------|-------------------------------|
| ISA Spanish II A&B Culture, Comparisons and Communication | ISA Spanish III Advanced A&B; The Humanities/Art and History | ISA AP Spanish Language A&B | ISA AP Spanish Literature A&B |
| ISA Honors Ninth Grade Literature/Composition A&B | ISA AP Government (spring sem) & ISA Honors World Literature Honors A&B | ISA AP US History A&B | ISA AP English Literature A&B |
| | ISA Honors World Literature A&B | | |

Physical Education

All students are required to take Personal Fitness and Health for graduation.

Health

For grades 9-12

Health allows students to develop a higher state of wellness through an understanding of preventative health strategies as they pertain to personal health, nutrition, communicative and chronic diseases, consumer health, first aid and CPR, drug education, community health and family living. An emphasis is placed on the decision-making process and preventative health care. The Alcohol Drug Awareness Program (ADAP) will be given during all Health classes.

Personal Fitness

For grades 9-12

Personal Fitness is designed to help students understand why exercise and fitness are important and will emphasize successful strategies for maintaining good cardiovascular endurance, flexibility, muscular strength, and muscular endurance. The course will follow a conceptual approach dealing with the following topics: understanding the nature of fitness; appraising individual fitness; understanding methods of conditioning, exercise precautions and fallacies, and problems with maintaining a lifelong fitness program; developing a personal fitness program; and assessing diet and exercise and how they affect your health. In addition, the course includes physical training and fitness goals.

Intro to Team Sports A&B

For grades 9-12

This course is designed to introduce students to three different team sports ranging from basketball, volleyball, softball, flag football, soccer, and any other team-oriented sport. This course offers the students the opportunity to learn the sport history, rules and regulations, etiquette, strategy and judgment, and basic motor skills.

Intro to Outdoor Education A&B (spring only)

For grades 10-12

This course promotes an appreciation for the outdoors, provides physical activities and adventures in an outdoor laboratory. It introduces the student to outdoor survival, camping, cooking, wilderness/wildlife, orienteering, map making, hunting, gun safety, archery, fishing, project adventure, and hiking. The student's grade will be based on demonstrating outdoor skills.

Weight training A&B

For grades 9

Advanced Weight training A&B

For grade 10

Physical Conditioning A&B

For grade 11

Advanced Physical Conditioning A&B

For grades 12

Exercise and Weights A&B

For grades 10-12

These courses are designed to introduce students to a program of activities that promote the development of health-related fitness. Activities may include stretching exercises, weightlifting, strength training, polymeric exercises, flexibility, and physical fitness training. Students will devise an individual program for their fitness and strength level.

Intro to Lifetime Sports A&B

For grades 9-12

This course is designed to introduce students to different lifetime sports. This course may include the following: tennis, badminton, basketball, volleyball, golf, bowling, and any other individual or dual sport or activity. It will also offer the student the opportunity to learn the sport history, rules and regulations, etiquette, strategy and judgment, and basic motor skills for each activity.

Intro to Recreational Games A & B (fall only)

For grades 9-12

Introduces recreational games for lifetime leisure activities which may include table tennis, shuffleboard, frisbee, deck tennis, spikeball, horseshoes, and croquet. Emphasizes the rules of each game and the skills necessary to play.

Science

Four units of science study, including one unit of Biology, one unit of Physics or Physical Science, one unit of Chemistry, Earth Systems, Environmental Science or AP science, and one additional unit of science is required.

Physics 1 Honors A&B**

For grade 9-10

Prerequisite: concurrent with GSE Hon Alg 1 & Teacher rec.

Physics is a foundational science. The principles taught in a first-year physics course underlie all other fields of science and lay the foundation for more advanced high school courses in chemistry, biology and physics. It is essential to offer incoming freshman a first-year physics course to be taken concurrently with GSE Algebra. This approach improves mathematical skills because students gain a better understanding of how algebra concepts are applied to physics content. Our approach to teaching physics first fosters critical thinking and has improved success in subsequent science courses. The curriculum emphasizes real world application, integrates accelerated algebra skills and incorporates technology to gain well-rounded knowledge of physics concepts. This course focuses on the study of forces and the laws of nature affecting matter: equilibrium, motion, momentum, and the relationships between matter and energy; the laws of conservation; energy transformation. The study of physics includes examination of sound, light, magnetic and electric phenomenon as well as an introduction to geometrical and physical optics. Students investigate physics concepts through laboratory experiences using the process of inquiry. Students will accumulate data, construct graphs and develop mathematical models to describe the physical world.

Physics 1 A&B

For grade 9

Prerequisite: Concurrent w/ GSE Algebra

This course follows the same principles and general topics as Physics I Honors. The differences include the depth of topics covered and the mathematical formulas used. The course is differentiated in laboratory scope and sequence.

Physics 1 93 A&B

For grade 9

Prerequisite: teacher recommendation

This course follows the same principles and general topics as Physics I. The differences include the depth of topics covered and the mathematical formulas used. The course is differentiated in laboratory scope and sequence.

Biology A&B Honors**

For grades 9-10

Prerequisite: teacher rec and concurrent with GSE Honors Geom. or higher math

Honors Biology is a sophomore level class. Topics of study include inorganic and organic chemistry principles, cell structures and function, cellular processes, cellular respiration, photosynthesis, and cellular reproduction, genetics, and DNA, evolution, biological diversity and its classification, and biotechnology. Honors Biology is a laboratory-based class. Students will be involved in computer-based and traditional lab activities with an emphasis on collaborative inquiry exploration. Students will take the state Georgia Milestones EOC at the end of the course.

Biology A&B

For grades 10

Prerequisite: one unit of science credit

Biology introduces biological processes. Starting at the molecular level the structures and functions both unique and common to various life forms will be examined and compared. Study topics will include biological molecules, energy processes, cellular structure, genetics and reproduction, biological diversity, behavior and adaptation, and ecology. Laboratory exercises will provide hands-on opportunities to increase knowledge and skills in both biology and the design of controlled experiments. Students are required to take the state Georgia Milestones EOC.

Biology 103 A&B

For grade 10-12

Prerequisite: teacher rec - no waivers allowed

The fall semester of this course will introduce the topics of cellular structure and function, genetics, and the development and diversity of life. The spring semester of this course will deal with the classification of living things, a survey of the five biological kingdoms, and ecology. This course is supplemented with materials not found in the textbook. Students are required to take the state Georgia Milestones EOC.

Human Anatomy/Physiology Honors A&B****For grade 10-12****Prerequisite: 1 unit of biology & teacher recommendation**

The honors Anatomy/Physiology course is designed to introduce students to the structure and function of the human body through a study of the 11 organ systems. The class will concentrate on three themes of study– interrelationships of body organ systems, homeostasis and complementarity of structure and function. Students will analyze the structures of the organs found within each system as a prerequisite to comprehending its function. Pathological conditions are integrated throughout the course to clarify and illuminate normal functioning. This course satisfies the fourth science requirement for graduation.

Human Anatomy and Physiology**For grade 11-12****Prerequisite: 1 unit of biology and 1 other science**

Human Anatomy and Physiology will introduce students to the structures and functions of all of the human body systems. Depth and breadth of the course will be aligned with Biology. Curriculum will be enriched with group case studies, lab dissections and exposure to actual medical procedures. This course satisfies the fourth science requirement for graduation.

Environmental Science A&B**For grades 11-12****Prerequisite: 1 unit of Biology**

Environmental Science is designed to integrate the study of many components of our environment, including the human impact on our planet. Students will investigate the flow of energy and cycling of matter within ecosystems and evaluate types, availability, allocation, and sustainability of energy resources. Course instruction is based on hands-on, student-centered, and inquiry-based approaches to engage students in higher order thinking skills to promote learning in the classroom. This course satisfies the third science requirement for graduation.

Environmental Science 113 A&B**For grades 11-12****Prerequisite: 1 unit of biology & teacher recommendations**

Environmental Science 113 is designed to integrate the study of many components of our environment, including the human impact on our planet. Students will investigate the flow of energy and cycling of matter within ecosystems and evaluate types, availability, allocation, and sustainability of energy resources. Course instruction is based on hands-on, student-centered, and inquiry-based approaches to engage students in higher order thinking skills to promote learning in the classroom. This course satisfies the third science requirement for graduation.

Astronomy A&B**For grades 11-12****Pre-requisite: 1 unit of Geometry**

This course is an introduction to the world's oldest science, astronomy. The topics studied will include the origin of the universe, earth centered cosmology, stellar evolution, the laws of gravity and light, the concepts of space and time travel, current and historical concepts of astronomy observing, and the methodologies and equipment used in modern astronomy along with the historic development of these methods and procedures. This course satisfies the fourth science requirement for graduation.

Forensics A&B**For grades 11-12****Prerequisite: two units of science & teacher recommendation**

Forensic science is the use of scientific protocols to analyze a crime scene. Students will learn how to use biological, chemical, and physical separation methods to isolate and identify materials. They will also learn how to analyze physical evidence, biological evidence, and the use of tools, including impressions from firearms, tool marks, and arson. This course satisfies the fourth science requirement for graduation.

Chemistry A&B**For grades: 11-12****Prerequisite: 2 units of science and concurrent with GSE Alg 2 (not recommended for Alg 2:113)**

Chemistry is a laboratory-investigation based science class studying matter & its changes. Topics covered include periodic trends, bonding, chemical reactions, states of matter, acids & bases, equilibrium, stoichiometry, & energy changes. Math-based reasoning is regularly used to predict & explain data. This course is designed to help prepare students for introductory college Chemistry. This course satisfies one science requirement for graduation.

Chemistry A&B Honors****For grades 10-12****Prerequisite: 2 units of science or accelerated standing & concurrent with GSE Accel Geom/Alg 2 or Honors Alg 2; 1 unit of Honors Biology for 10th grade students**

Honors Chemistry is a laboratory-investigation based science class studying matter & its changes. Topics covered include periodic trends, bonding, molecular shape, polarity, chemical reactions, intermolecular forces, acids & bases, equilibrium, stoichiometry, gas relationships, electrochemistry, & energy changes. This class emphasizes analysis & application of course content. Math-based reasoning is regularly used to predict & explain data. Students describe Honors Chemistry as interesting & fun. It is designed to prepare students for Advanced Placement Science courses, as well as general & inorganic chemistry college courses. This course satisfies one science requirement for graduation.

Honors Physics 2 A&B ****For grades 11-12****Prerequisite: 2 units of science & enrollment in GSE Precalculus**

This course concentrates on the subjects of mechanics, waves and optics, sound and musical acoustics, electricity and magnetism. Laboratory investigations are an integral part of the course. The laws of physics are generalized from observation and experimental results. Since physical laws are usually expressed as mathematical equations, algebraic ability is necessary to understand physics on any level beyond a qualitative description. Problem-solving and critical thinking skills are taught and nurtured.

Biotechnology A&B Honors****For grades 11-12****Prerequisite: 1 unit of biology, 1 unit of chemistry & teacher recommendation**

Key topics studied in this course include the principles and techniques of genomics, recombinant DNA, proteomics, and gene therapy. Biotechnology is a lab intensive course with hands on experiments 3-5 days per week. The focus of the lab component is to develop expertise in such lab procedures as volume and mass measurement, safe lab practices, preparing solutions, media and cell cultures, sterile technique, isolating and analyzing DNA and proteins, performing electrophoresis, and using appropriate technology for preparation and analysis of samples.

AP Biology*****For grades 11-12****Prerequisite: 1 unit Honors Bio, 1 Unit Honors Chem & teacher rec**

The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. The AP course in biology differs significantly from the usual first high school course in biology with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. It provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Specific topics covered include biological chemistry, cells, energy transformations, molecular genetics, heredity, evolution, classification, and organ systems, bacteria, protista, fungi, plants, animals and ecology. This course also prepares students to take the AP Biology exam. Students must be available for WEB labs and there will be a required summer assignment.

AP Environmental Science A&B*****For grades: 10-12****Prerequisite: 1 unit biology, 1 unit chemistry & teacher rec. or 1 unit of honors biology with accelerated status or concurrent with Chemistry**

The Advanced Placement Environmental Science course is designed to be the equivalent of an introductory Environmental Science course at the college level. The goal of the course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze both natural and human made environmental problems, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a variety of

topics from biology, chemistry, geology, and public policy. The course has significant laboratory and fieldwork components. The course prepares students to take the AP Environmental Science exam.

AP Chemistry A&B*****For grades 10-12****Prerequisite: 1 unit honors chemistry & teacher recommendation**

AP Chemistry is a college level introductory course in chemistry for those intending to major in a science related field. Materials studied in this course also include the topics, concepts, and laboratory experiments associated with first-year college chemistry and extensive mathematical applications of laws learned in the first-year course. The goal of AP Chemistry is to develop critical thinking skills and improve reasoning regarding topics in chemistry. Topics to be studied include atomic theory and structure, chemical bonding, organic chemistry, gases, liquids, solids, solutions, types of reactions, stoichiometry, equilibrium, kinetics, and thermodynamics. This course prepares students to take the AP Chemistry exam.

AP Physics C– Mechanics A&B*****For grades 11-12****Prerequisite: 2 units of science, concurrently enrolled in Calculus, & teacher rec**

The Advanced Placement Physics C - Mechanics course is a calculus-based, in-depth study of mechanics. The course is an investigation driven development of the laws of physics. Problem-solving and critical thinking are emphasized throughout the course. The topics of kinematics, dynamics, impulse and momentum, work and energy, rotational motion, oscillations and gravitation are covered in this course. This course ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in science, applied science, and engineering. This course prepares students to take the AP Physics C exam in mechanics.

AP Physics C—Emag A&B*****For grades: 12****Prerequisite: 3 units of science including 1 unit of physics, concurrent with Calculus & teacher recommendation**

The Advanced Placement Physics C – Emag course is a calculus-based, in-depth study of electricity and magnetism. The course is an investigation driven development of the laws of physics. Problem-solving and critical thinking are emphasized throughout the course. The topics of electrostatics, electric fields and forces, electrodynamics, electric potential and capacitance, current and resistance, circuit elements and dc circuits, magnetic fields and forces, magnetic flux, electromagnetic induction, and Maxwell's equations are covered in this course. This course ordinarily forms the second part of the college sequence that serves as the foundation in physics for students majoring in science, applied science, and engineering. This course prepares students to take the AP Physics C exam in electricity and magnetism.

AP Physics 1 A&B*****For grades 11-12****Prerequisite: 2 units of science, concurrent enrollment in GSE Accelerated Precalculus or higher math & teacher rec.**

The Advanced Placement Physics 1 course is equivalent to a first-semester college course in algebra/trigonometry-based physics for non-physics majors. Emphasis is placed on the development of critical thinking skills and problem-solving ability. Course topics include Newtonian mechanics (including rotational dynamics and angular momentum); work, energy and power; and mechanical waves and sound. It also introduces electrical circuits. This course prepares students to take the AP Physics 1 exam. At the conclusion of this course, students will be prepared to continue the study of physics by taking either AP Physics 2 or AP Physics Emag dependent on math coursework.

AP Physics 2 A&B*****For grades 11-12****Prerequisite: 2 units of science, concurrent enrollment in GSE Accelerated Precalculus or higher math & teacher rec.**

The Advanced Placement Physics 2 course is equivalent to a second-semester college course in algebra/trigonometry-based physics for non-physics majors. Emphasis is placed on the development of critical thinking skills and problem-solving ability. Course topics include fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics. This course prepares students to take the AP Physics 2 exam.

| | 9 th | 10 th | 11 th | 12 th |
|--|---|--|---|--|
| Accelerated/ Multiple AP options | Honors Biology (taken concurrently with Hon Alg 1 or higher math) | Honors Chemistry (taken concurrently with Hon Alg 2 or higher math) | <p><i>“A or B” avg in Chem:</i> AP Biology OR AP Chemistry OR AP Physics C (must be taken with Calc) AP Physics 1 OR AP Environmental Science</p> <p><i>“C or D” avg in Honors Chem:</i> Anatomy/Physiology OR Honors Physics 2</p> <p><i>Below “D” avg in Honors Chem:</i> Env Sci and a science elective course</p> | AP Biology OR AP Chemistry OR AP Physics C (must be taken with Calc) AP Physics 1 OR AP Environmental Science OR Honors Anatomy/Physiology OR Honors Biotechnology OR Honors Physics 2 |
| | Honors Biology (taken concurrently with Hon Algebra 1) | AP Env. Science OR Honors Anatomy/Physiology | Honors Chem (taken concurrently with GSE Hon Alg 2 or higher math) | |
| Honors | Honors Physics 1 (taken concurrently with Hon Algebra 1 or higher math) *Below a C average will be recommended to Biology | Honors Biology *Below a C average will be recommended for Chemistry | Honors Chem (taken concurrently with GSE Hon Alg 2 or higher math) | |
| College Prep | Physics 1 (taken concurrently with Algebra 1 or higher math) *A average can go to Honors Biology | Biology | Chemistry (taken concurrently with GSE Alg 2 – not Alg 2 113) OR Environmental Science | Anatomy/Physiology OR Physics 2 OR Environmental Science OR Astronomy OR Forensics |
| 3-Level | Physics 1 93 (taken concurrently with Foundations of Alg or Alg 1 93) | Biology 103 | Environmental Sci (taken concurrently with Alg 2) | Anatomy/Physiology OR Chemistry OR Astronomy OR Forensics |
| Graduation Requirement: 1 unit of Biology 1 unit of Physics/Physical Science 1 unit of Chem, Env. Sci or AP Science 1 unit of a 4 th science | | Note: *Students can be moved up or down levels per teacher recommendation. *Waivers are accepted when the prerequisite has been satisfied *4 th science does not necessarily have to be taken senior year | | |

Science, Technology, Engineering, and Mathematics (STEM) Academy

The STEM Academy provides a rigorous program of study for students who have a sincere interest in the STEM fields. The academy provides three pathways: advanced math and science, biomedical sciences, and engineering. The academy's mission is to provide students a rigorous, interdisciplinary learning environment focused on science, technology, engineering, and mathematics, to foster curiosity, and to promote a collaborative culture of ethical and innovative problem-solving. Students must apply in the fall of the 8th grade year. Students accepted into the academy will take 4 years of paired STEM courses unique to each pathway. Placement into the following courses requires admission into the STEM Academy. Admission occurs prior to the 9th grade year.

ADVANCED MATH AND SCIENCE PATHWAY

STEM AP Environmental Science A&B

For grade 9

The Advanced Placement Environmental Science course is designed to be the equivalent of an introductory Environmental Science course at the college level. The goal of the course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze both natural and human made environmental problems, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a variety of topics from biology, chemistry, geology, and public policy. The course has significant laboratory and fieldwork components. The course prepares students to take the AP Environmental Science exam.

STEM GSE Accelerated Geometry/Algebra II A&B Honors

For grade 9

This is the second in the sequence of courses designed to ensure that students are prepared to take higher-level mathematics courses during their high school career, including AP Calculus AB, AP Calculus BC, and AP Statistics. It requires students to:

- Work with rational, irrational, and complex numbers
- Expand knowledge of functions to include polynomial, rational and radical
- Develop quadratic expressions, equations, and functions
- Compare quadratics to linear and exponential relationships and functions
- Create mathematical models and solve contextual problems
- Students will complete a summer packet which is due the first day of school.

The STEM ACC Geometry/Algebra 2 class dives deeper into proofs and applications of concepts throughout the curriculum while incorporating topics from the AP Environmental Science course.

STEM AP Chemistry A&B

For grade 10

AP Chemistry is a college level introductory course in chemistry for those intending to major in a science related field. Materials studied in this course also include the topics, concepts, and laboratory experiments associated with first-year college chemistry and extensive mathematical applications of laws learned in the first-year course. The goal of AP Chemistry is to develop critical thinking skills and improve reasoning regarding topics in chemistry. Topics to be studied include atomic theory and structure, chemical bonding, organic chemistry, gases, liquids, solids, solutions, types of reactions, stoichiometry, equilibrium, kinetics, and thermodynamics. This course prepares students to take the AP Chemistry exam.

STEM GSE Accelerated Precalculus BC A&B Honors

For grade 10

This is the third in the sequence of mathematics courses designed to ensure that students are prepared to take higher level mathematics courses during their high school career, including AP Calculus AB, AP Calculus BC, and AP Statistics. It requires students to:

- Continue the study of conics, including systems of quadratic equations and using the discriminant
- Analyze and use trigonometric functions, their graphs, and their inverses
- Use trigonometric identities to solve problems and verify equivalency statements
- Solve trigonometric equations analytically and with technology
- Solve problems and verify equivalency statements using sum and difference formulas, double-angle and half-angle formulas, sum-to-power rule and power-to-sum rule
- Use complex numbers in trigonometric form
- Understand and use vectors in 2-space and 3-space.
- Use dot product and cross-product to solve problems
- Use sequences and series
- Explore parametric representations of plane curves in 2 and 3-space
- Explore polar equations
- Explore matrices and use matrices in applications
- Law of Sines/Cosines
- Understand and use vectors
- Use binomial theorem to calculate probability and expand binomials
- Explore set theory
- Develop the use of proofs, including direct proofs, indirect proofs and proof by induction
- Expand knowledge of rational functions, including partial fraction decomposition

STEM AP Physics C - Mechanics A&B**For grade 11**

The Advanced Placement Physics C course is a calculus-based, in-depth study of mechanics. The course is an investigation driven development of the laws of physics. Problem-solving and critical thinking are emphasized throughout the course. The topics of kinematics, dynamics, impulse and momentum, work and energy, rotational motion, oscillations and gravitation are covered in this course. This course ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in science, applied science, and engineering. This course prepares students to take the AP Physics C exam in mechanics.

STEM AP Calculus BC**For grade 11**

This course conforms to the College Board topics for the Advanced Placement Calculus BC Examination. Topics covered include functions (including parametric, polar and vectors), graphs, limits, derivatives, integrals, polynomial approximation and series. The STEM AP Calculus BC class follows the framework distributed by the College Board while incorporating proofs, applications, and additional calculus topics found outside the framework. The students are required to complete multiple projects that further enhance learning of calculus topics. This course prepares students to take the AP Calculus BC exam.

AP Capstone Courses

Students graduating in 2026 and after will be required to take AP Seminar and AP Research. This will make students eligible for the AP Capstone Diploma and fulfill the senior capstone requirement. Current freshmen and sophomores are encouraged to enroll in these courses during their junior and senior years. If current students are unable to enroll in these courses, they will need to work with their AP Biology teacher to ensure that they meet the capstone requirements outside of the classroom.

To earn the AP Capstone Diploma, students must score a 3 or above on both the AP Seminar and AP Research exams as well as a 3 or above on four other AP exams of their choosing.

STEM AP Seminar**For grade 11**

In AP Seminar students will engage with complex academic and real-world issues, examining them through multiple lenses and considering multiple viewpoints. The topics may change from year to year depending on student and teacher interests, global and civic issues, academic questions, and concepts from other AP courses. Students will evaluate multiple viewpoints through several of the following lenses: cultural and social, artistic and philosophical, political and historical, environmental, scientific, futuristic, and ethical. Through inquiry and investigation, students will develop their own perspectives on complex issues and topics while honing their critical and creative thinking skills. During the course,

students will complete a team research project and presentation, an individual research project and presentation, and an end of course exam in which they will analyze, compare and synthesize arguments.

STEM AP Biology A&B**For grade 12**

The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. The AP course in biology differs significantly from the usual first high school course in biology with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. It provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Specific topics covered include biological chemistry, cells, energy transformations, molecular genetics, heredity, evolution, classification, and organ systems, bacteria, protista, fungi, plants, animals and ecology. This course also prepares students to take the AP Biology exam. Students must be available for WEB labs and there will be a required summer assignment.

STEM Multivariable Calculus**For grade 12**

This course is a continuation of calculus and includes topics such as vectors, vector functions, partial derivatives, multiple integrals and vector calculus. *Note: Students may apply for and if accepted, take Georgia Tech's Distance Calculus in lieu of multivariable.

STEM AP Research**For grade 12**

AP Research allows students to deeply explore a STEM topic, problem or issues of individual interest. Through this exploration, students design, plan and conduct a year-long research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. AP Statistics is strongly recommended.

BIOMEDICAL SCIENCES PATHWAY**STEM Biology A&B Honors****For grade 9**

Honors Biology explores basic biological processes. Topics of study include inorganic and organic chemistry principles, cell structures and function, cellular processes, cellular respiration, photosynthesis, and cellular reproduction, genetics, and DNA, evolution, biological diversity and its classification, and biotechnology. Honors Biology is a laboratory-based class. Students will be involved in computer-based and traditional lab activities with an emphasis on collaborative inquiry exploration. STEM students will work on a year-long project determined by the instructor. Students will take the state Georgia Milestones EOC at the end of the course.

STEM PLTW Principles of Biomedical Science A&B Honors**For grade 9**

Principles of Biomedical Science use the PLTW curriculum. This honors course requires students to design research strategies, analyze data related to outbreaks and healthcare as well and explore clinical empathy and health promotion. Students will develop technical skills using cutting edge technologies as well as skills involving problem solving, critical and creative thinking, communication, and collaboration. Students will take the PLTW end-of-course test.

STEM Chemistry A&B Honors**For grade 10**

Honors Chemistry is a laboratory-investigation based science class studying matter & its changes. Topics covered include periodic trends, bonding, molecular shape, polarity, chemical reactions, intermolecular forces, acids & bases, equilibrium, stoichiometry, gas relationships, electrochemistry, & energy changes. This class emphasizes analysis & application of course content. Math-based reasoning is regularly used to predict & explain data. Students describe Honors Chemistry as interesting & fun.

STEM PLTW Human Body Systems A&B Dual Honors**For grade 10**

Human Body Systems combines the PLTW curriculum with Honors Anatomy and Physiology. This course is designed to introduce students to the structure and function of the human body through a study of the 11 organ systems. The class will concentrate on three themes of study– interrelationships of body organ systems, homeostasis and complementarity of

structure and function. Students will analyze the structures of the organs found within each system as a prerequisite to comprehending its function. Pathological conditions are integrated throughout the course to clarify and illuminate normal functioning. Students will take the PLTW end-of-course test. Students will receive dual honors credits for this course reflecting both Honors Human Body Systems and Honors Anatomy and Physiology on the transcript.

STEM AP Biology A&B**For grade 11**

The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. The AP course in biology differs significantly from the usual first high school course in biology with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. It provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Specific topics covered include biological chemistry, cells, energy transformations, molecular genetics, heredity, evolution, classification, and organ systems, bacteria, protista, fungi, plants, animals and ecology. This course also prepares students to take the AP Biology exam. Students must be available for WEB labs and there will be a required summer assignment.

STEM PLTW Medical Interventions A&B Honors**For grade 11**

Medical Interventions uses the PLTW curriculum. Students delve into activities like designing a prosthetic arm as they follow the life of a fictitious family and investigate how to prevent, diagnose, and treat disease. Students use current, cutting-edge biotechnology, such as PCR, during these investigations. Students will take the PLTW end-of-course test.

STEM AP Physics 1 A&B**For grade 12**

The Advanced Placement Physics 1 course is equivalent to a first-semester college course in algebra/trigonometry-based physics for non-physics majors. Emphasis is placed on the development of critical thinking skills and problem-solving ability. Course topics include Newtonian mechanics (including rotational dynamics and angular momentum); work, energy and power; and mechanical waves and sound. It also introduces electrical circuits. This course prepares students to take the AP Physics 1 exam.

STEM PLTW Biomedical Innovation A&B Honors and AP**For grade 12**

Students build on the knowledge and skills gained from previous courses to design their own innovative solutions for the most pressing health challenges of the 21st century. Students will receive dual credits for this course reflecting both Biomedical Innovations and (AP) Research IV on the transcript.

ENGINEERING PATHWAY**STEM Biology A&B Honors****For grade 9**

Honors Biology explores basic biological processes. Topics of study include inorganic and organic chemistry principles, cell structures and function, cellular processes, cellular respiration, photosynthesis, and cellular reproduction, genetics, and DNA, evolution, biological diversity and its classification, and biotechnology. Honors Biology is a laboratory-based class. Students will be involved in computer-based and traditional lab activities with an emphasis on collaborative inquiry exploration. STEM students will be working on designing and maintaining an aquaponics system using both the engineering design process as well as a biological systems approach. Students will take the state Georgia Milestones EOC at the end of the course.

STEM Intro to Engineering Design A&B Honors**For grade 9**

Introduction to Engineering Design is a year-long honors introductory course in the nationally known Project Lead the Way curriculum. The IED course teaches problem-solving skills through use of a design development process. Topics include the history of design, sketching and visualization, modeling, and documentation. Students will create and prototype 3-D models using industry standard CAD software and various manufacturing techniques. Students will learn how to properly document this entire design process. Students will take the PLTW end-of-course test.

STEM Chemistry A&B Honors**For grade 10**

Honors Chemistry is a laboratory-investigation based science class studying matter & its changes. Topics covered include periodic trends, bonding, molecular shape, polarity, chemical reactions, intermolecular forces, acids & bases, equilibrium, stoichiometry, gas relationships, electrochemistry, & energy changes. This class emphasizes analysis & application of

course content. Math-based reasoning is regularly used to predict & explain data. Students describe Honors Chemistry as interesting & fun. STEM students will participate in Georgia Tech's InVenture challenge. InVenture challenges students to identify real-world problems and design novel solutions through careful analysis, creativity, and the scientific method. Top teams earn a spot in the K-12 InVenture Prize State Finals hosted at Georgia Tech.

STEM Principles of Engineering A & B Honors**For grade 10**

This survey course explores many engineering disciplines including mechanical, electrical, environmental, and computer engineering. Some specific topics explored include mechanisms, electricity, energy, statics, materials, fluids, and control systems. Using activities, projects, and problem-solving techniques, students learn first-hand how engineers and technicians use math, science, and technology in a group-focused engineering problem-solving process to benefit people. STEM POE students will design, build, and program robots as a control system and continue mastery of engineering documentation. Students will take the PLTW end-of-course test.

STEM AP Physics 1 or C: Mechanics A&B**For grade 11**

Engineering STEM students will complete a two-year course of physics study during their junior and senior years that offers options for level placement within the AP Physics curriculum based on the student meeting specific math requirements. Students concurrently enrolled in AP Calculus AB or BC have the option to take AP Physics C: Mechanics. All other students, plus calculus students who chose, will be enrolled in AP Physics 1.

AP Physics C: Mechanics is a calculus-based, college-level physics course. It covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation.

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, and torque and rotational motion.

Because of the similarity of these courses, they will be taught at the same time, allowing the STEM cohort to stay together for project-based work. While the students are learning from the same teacher in the same classroom, each student will receive credit on their transcript and take the AP Exam associated with the course they are enrolled in. The differences between the courses will be manifest in the unit exams and in the final AP Exam preparation unit at the end of the course.

STEM Aerospace Engineering A&B Honors**For grade 11**

Aerospace Engineering is an advanced year-long honors course in the Project Lead the Way Curriculum. Through hands-on engineering projects developed with NASA, students explore aerodynamics, astronautics, space-life sciences, and systems engineering. Students use a flight simulator to learn why airplanes fly, build and test airfoils in a wind tunnel, build rockets to learn about astronautics, and build robots to further explore systems engineering. Students will take the PLTW end-of-course test. (This course alternates years with STEM Digital Electronics. If a student wishes to take this class during a year the alternate is the primary course, students may take this course as an additional elective.)

STEM Digital Electronics A&B Honors**For grade 11**

Digital Electronics is a year-long, honors course in the Project Lead the Way Curriculum. This course in applied logic encompasses the application and construction of electronic circuits and devices. Students explore the 1's and 0's behind basic computer logic by using the circuit design process to create truth tables, implement basic logic gates, and use industry standard simulation software to design, test, and build digital circuitry. Students will take the PLTW end-of-course test. (This course alternates years with STEM Aerospace Engineering. If a student wishes to take this class on a year the alternate is the primary course, students may take this course as an additional elective.)

STEM Engineering Design & Development A&B Honors and AP**For grade 12**

Engineering Design and Development is the year-long capstone course in the PLTW high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops

secondary level knowledge and skills in math, science and technology. Students will receive dual credits for this course reflecting both Engineering Design & Development and (AP) Research IV on the transcript.

STEM AP Physics C: Electricity and Magnetism A&B

For grade 12

AP Physics C: Electricity and Magnetism is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism.

Introductory differential and integral calculus is used throughout the course. In order to accommodate students that have not completed a course in calculus before enrolling in this physics course, this section has been designed with special instruction to present the requisite calculus in a manner that will allow engineering students of all levels to be successful.

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|---|
| SPECIAL CONSIDERATIONS FOR STEM STUDENTS |
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STEM students are encouraged to take AP Statistics.

AP Statistics

For grades 10-12

Prerequisites: GSE Hon Geom or Accelerated Geom/Alg 2 & teacher rec

This course conforms to the College Board topics for the Advanced Placement Statistics Examination. Students learn to make decisions based on real-world data. They learn to plan studies and experiments using probability and simulation models to anticipate and predict patterns in data. Extensive use is made of calculators with statistical capabilities. This course covers four major themes: Exploratory analysis, planning a study, probability and statistical inference.

This course includes the same topics of study included in GSE Geometry but places more emphasis on fundamental processes and practice. This course will place more emphasis on basic problem solving and mathematical concepts.

STEM students have the option to take three years of computer science starting in the 10th grade. Non-STEM students may not begin computer science courses until 11th grade.

STEM AP Computer Science Principles A&B

For grade 10

Students are introduced to fundamental computer programming concepts, hardware, and interactive programming. Development of a logical problem-solving approach is stressed. Students gain experience in program design and development using Java programming language. The course is the equivalent of a college-level Computer Science Principles course and is preparation for the AP Computer Science Principles exam.

STEM AP Computer Science A&B

For grade 11

Prerequisite: AP Computer Science Principles

This course emphasizes Java-based object oriented programming, problem solving, and algorithm development. Development of a logical problem-solving approach is stressed. Students gain experience in designing programs with multiple classes and class hierarchies using the Java programming language. The course is the equivalent of a first semester college-level Computer Science course and is preparation for the AP Computer Science exam.

STEM Computer Science Research – Web Design A&B

For grade 12

Prerequisite: AP Computer Science Principles & AP Computer Science

Computer Science Research uses HTML, CSS, and JavaScript to build upon the fundamental concepts learned in AP Computer Science Principles and AP Computer Science A. The course explores the historical and rapidly changing trends in web design. Through programming projects, students will gain the skills and project-based experience needed for entry into web design and development careers. Students will produce a capstone project at the end of the course that demonstrates a superior understanding of the concepts learned throughout the course.

STEM Curriculum Flowchart

| | 9 th | 10 th | 11 th | 12 th |
|-------------------------------------|--|---|---|---|
| Advanced Math & Science Track | STEM AP Environmental Science | STEM AP Chemistry | STEM AP Physics C Mechanics | STEM AP Biology |
| | STEM GSE Acc Geometry/Algebra 2 | STEM GSE Accelerated PreCalculus BC | STEM GSE AP Calculus BC | Multivariable Calculus or Georgia Tech Distance Calculus |
| | | | Starting with class of 2026: STEM AP Seminar | Starting with class of 2026: STEM AP Research |
| Biomedical Track | STEM Honors Principals of Biomedical Science | STEM Honors PLTW Human Body Systems and STEM Honors Anatomy | STEM Honors PLTW Medical Intervention | STEM Honors PLTW Biomedical Innovations Capstone Course |
| | STEM Honors Biology | STEM Honors Chemistry | STEM AP Biology | STEM AP Physics 1 |
| Engineering Track | STEM Hon PLTW Introduction to Engineering Design | STEM Hon PLTW Principles of Engineering | STEM Hon PLTW Aerospace Engineering or Digital Electronics | STEM Hon PLTW Engineering Design and Development |
| | STEM Honors Biology | STEM Honors Chemistry | STEM AP Physics 1/C | STEM AP Physics C: Electricity and Magnetism |

STEM Advanced Math and Science, Biomedical and Engineering students enrolled in any of the following, AP Chemistry, Honors Biology, Honors Chemistry and/or PLTW courses, should expect to have labs several times each semester during WEB. STEM AP Biology students should expect to have labs during each WEB. Additionally, All STEM students should expect to participate in the Science Expo each January.

Social Studies

Three units of social studies is required including ½ unit American Government, ½ unit Principles of Economics, one unit World History and one unit United States History

World Geography A&B

For grade 9

World Geography provides an overview of how human beings interact with their environment and introduces the idea that how we live is influenced by where we live. An awareness of similarities and differences in human needs and behaviors is developed along with an appreciation for the impact that geography has on our lives. World Geography will cover a wide variety of topics including, but not limited to demography, culture, political geography and agriculture. This course is an academic elective credit only and does not fulfill a social studies requirement for graduation.

AP Human Geography***

For grade 9

Prerequisite: teacher recommendation

The purpose of the AP course in Human Geography is to provide the students with an in-depth understanding of the earth's cultures, recent regional histories, political systems and disputes, land use patterns, and issues of sustainability. By the end of the course, each student will be able to watch the news on television and understand the issues that define our world. Students employ spatial concepts and landscape analysis to analyze human-social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. The course will cover 7 general topics: demography, resources and human settlement, cultural patterns and processes, political patterns and processes, economic patterns and processes, and environmental and development issues. This course is an academic elective credit only and does not fulfill a social studies requirement for graduation.

American Government Honors**

For grade 10

Prerequisite: teacher recommendation

Honors American Government involves an in-depth study of United States political system. Students will study the founding principles and the structure of the American governmental system. They will also explore the relationship between citizens and their government. Various landmark Supreme Court rulings will be studied as students examine their civil rights and liberties. Focus areas include: the foundation of the American government, the US Constitution and the rights of citizens, political parties and interest groups, elections and voting, and the three branches of the national government. Curriculum content has been designed for mastery and extension of state and district performance standards.

American Government

For grade 10

American Government focuses on the foundations, structure and functioning of the United States Government. The course examines the American political system including the role of state and local governments within the federal structure. Students will also explore the relationships between citizens and their government including their civil rights and liberties. Focus areas include: the foundations of the American government, the US Constitution and the rights of citizens, political parties and interest groups, elections and voting, and the three branches of the national government.

American Government 103

For grade 10

Prerequisite: teacher recommendation only; no waivers

An overview of the American political system. This course focuses on the foundation, principles and structure of the American system of government. It examines the role of political parties, social factors as they relate to the role of the citizen and analyzes the decision-making process that is a part of the system of American political behavior.

AP Government/Politics: US***

For grade 10

Prerequisite: teacher recommendation

The AP Government Program is an in-depth analysis of our political system and is equivalent to introductory level college courses in political science. Topics covered include federalism, separation of powers, influences on the formulation and adoption of the Constitution, political beliefs, political parties and elections, interest groups, institutions and policy processes, and civil liberties and civil rights. Students will be asked to develop skills in political science and apply them to real life scenarios.

AP Government: Comparative* (spring only)****For grade 10-12****Prerequisite: AP Government US or Honors Government with teacher recommendation**

This course conforms to the College Board topics for the Advanced Placement Comparative Government and Politics Examination. Topics covered include sources of public authority and political power, society and politics, citizen and state, political framework, political change and an introduction to comparative politics. This course is an academic elective credit only. This course can be taken in addition to but not in lieu of an American government course.

Economics/Business/Free Enterprise Honors****For grade 10****Prerequisite: Teacher Recommendation**

Economics addresses the fundamental concepts and essential elements of the market economic system in a problem/issues orientation. Issues such as economic growth, productivity, the impact of government on the economy, foreign trade, and rights and responsibilities of individual consumers are explored. Basic principles studied include: Opportunity Costs and Scarcity, Supply/Demand analysis, competitive markets, Macroeconomics measurement, Business cycles, Inflation, Unemployment, Monetary and Fiscal Policies, Comparative, Advantage and International trade.

Economics/Business/Free Enterprise**For grade 10**

Economics addresses the fundamental concepts and essential elements of the market economic system in a problem/issues orientation. Issues such as economic growth, productivity, the impact of government on the economy, foreign trade, and rights and responsibilities of individual consumers are explored. Basic principles studied include: Opportunity Costs and Scarcity, Supply/Demand analysis, competitive markets, Macroeconomics measurement, Business cycles, Inflation, Unemployment, Monetary and Fiscal Policies, Comparative Advantage and International trade. The standards for a personal finance course covering personal banking, budgeting, planning for retirement, the impact of training and education and understanding interest and debt are also embedded in the course. Emphasis is placed on personal finance throughout the course and students will complete a culminating budget project at the end of the course.

AP Microeconomics*****For grade 10-12****Prerequisite: Honors Geom or higher level or Honors Economics & teacher rec**

AP Microeconomics is a college level course. Content is primarily focused on basic economic concepts, technical analysis of business costs and production, competition, market dynamics, economic measurement, and government policies. Students should be well versed in mathematical concepts and graphical analysis. This course fulfills the graduation requirement for economics.

AP Macroeconomics* (spring only)****For grade 10-12****Prerequisite: AP Microeconomics or Honors Economics with teacher recommendation**

AP Macroeconomics is a college level course. The purpose of AP Macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. This course includes several projects including a stock market simulation and research into the modern branches of economic thought. This course is an elective credit only and does not fulfill the requirements for graduation.

US History A&B Honors****For grade 11****Prerequisite: teacher recommendation**

This course investigates the United States, its people, institutions, and heritage. It emphasizes political, cultural, and social issues, the role of the United States as a world leader and the issues confronting the United States today. At the honors level, there is more in-depth analysis of events and sources. The students also have formal essay assignments and will take the GEORGIA MILESTONES EOC at the end of the course.

United States History A&B**For grade 11**

United States history is a survey of the development of the United States from discovery through the present. The purpose of this course is to increase knowledge, awareness, and appreciation of America's social, political, and economic evolution from colonization to its current position as a world leader. Students will take the state Georgia Milestones EOC at the end of the course.

United States History 113 A&B**For grades 11****Prerequisite: teacher recommendation only; no waivers**

The course investigates the United States, its people, institutions, and heritage using a backwards design approach. It emphasizes political, cultural, and social issues, the role of the United States as a world leader and the issues confronting the United States today. Students will take the state Georgia Milestones EOC at the end of the course.

AP United States History A&B*****For grade 11****Prerequisite: teacher recommendation**

This course conforms to the College Board topics for the Advanced Placement United States History Examination. It covers discovery and settlement, colonial society, the American revolution, Constitution and New Republic, Age of Jefferson, Nationalism, Sectionalism, Territorial Expansion, Civil War, Reconstruction, Industrialization, progressive Era, World War I, Depression, New Deal, World War II, The Cold War through modern times. Heavy emphasis is placed on analytical and writing skills. Students will take the AP exam at the end of the course.

World History A&B Honors ****For grade 12****Prerequisites: teacher recommendation**

This course is a survey course emphasizing the study of global cultures and history. The course begins with premodern world history circa year 1200 through the modern age. The course explores the political, cultural, and economic heritage of civilizations as they change throughout time. Course content includes the emergence of nations through the development of science, communications, technology, and the emergence of interdependence of nations in the 20th and 21st centuries. This course also emphasizes the historical process through writing, analysis of primary source material, and reading comprehension.

World History A&B**For grade 12**

World History is a survey of people and nations of both Western and non-Western civilizations. This course explores the political, cultural, and economic heritage of civilizations from 1200 CE to present. Emphasizes the political, cultural, economic, and social development and growth of civilizations. Covers the development of change beginning with Second Wave civilizations, the emergence of nations through trade/communications, intellectual development, scientific/technological development, emergence of nation states, nations in conflict and the emerging interdependence of nations in the twentieth century.

World History 123 A&B**For Grade 12**

World History is a survey of people and nations of both Western and non-Western civilizations. This course explores the political, cultural, and economic heritage of civilizations from premodern world history circa year 1200 to the modern time. Course content begins with a brief overview of ancient history and then expands in more detail through the building of empires, the emergence of nations through trade/communications, intellectual development, scientific/technological development, emergence of nation states, nations in conflict and the emerging interdependence of nations in the twentieth century. This course also emphasizes reading comprehension and introductory analysis of primary source material.

AP World History: Modern A&B*****For Grade 12****Prerequisite: Teacher recommendation**

The purpose of the AP World History: Modern course is to develop a greater understanding of the evolution of global processes and interaction with different types of human societies. The course highlights the nature of changes and continuities in international frameworks, their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. Focused primarily on the past eight hundred years of the global experience, the course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the course of human development in the modern era.

Current Issues**For grades 11-12**

An in-depth examination of contemporary local, state, national and international issues. The main purpose of this course is to assess and analyze social, political, and economic issues involved in current events. Much of this class is discussion based on Internet and newspaper research.

Honors Psychology****For grades 11-12**

Psychology attempts to understand the reasons for why people think and behave the way they do. This course includes learning about methods of conditioning, the biology behind behavior, our cognitive and social development from birth through adulthood, understanding abnormal behaviors and psychological disorders, as well as the impact of society on how we act and see ourselves in the world. This course includes a few projects, including a self-reflection that asks students to apply course concepts to better understand themselves.

AP Psychology*****For grades 11-12**

AP Psychology covers the principles of each of psychology's major subfields and studies the methods psychologists use in research and practice in alignment with the AP curriculum. Students develop a deeper understanding of the human mind and behavior through class discussions, demonstrations and the review of famous experiments. Topics include the biological basis of behavior, sensation, perception, learning, memory, cognition, personality and abnormal and social psychology.

Sociology**For grades 10-12**

Sociology is designed to examine the importance of sociology as a social science and will explain the corresponding theories and theorists. Students will examine culture and its correlation to society, as well as agents of socialization such as the family, peer groups, and the media. Students review social groups, social structures, life stages, and gender roles in relation to society. The focus of the course is to demonstrate how human behavior and interaction is key to understanding how societies function.

AP European History A&B*****For grades 10-12****Prerequisite: teacher recommendation**

This course conforms to the College Board topics for the Advanced Placement European History Examination. Topics covered include intellectual and cultural history, political and diplomatic history, and social and economic history of Europe from the Renaissance to the present day.

AP Art History A&B*****For grades 11-12****Prerequisite: teacher recommendation**

This course conforms to the College Board topics for the Advanced Placement Art History Examination. Topics covered include prehistory to Egyptian, Greek and Roman, Early Christian, Byzantine, Early Medieval, Romanesque, Gothic, Renaissance, and Mannerist, 17th and 18th century, 19th century, 20th century and non-Western Art.

Ethnic Studies**For grades 10-12**

This course is designed to promote discussion about diversity issues within American society. The course will focus on ethnic differences and the impact these differences continue to have on the respective populations and American society as a whole. The goal of the course is to promote enlightened perspectives about the eclectic society in which we live as well as foster a more tolerant school community. The course utilizes a wide array of primary and secondary source material to encourage students to form more objective opinions of a myriad of topics of concern in modern American society.

Technology & Society**For grades 10-12**

This course will expose students to the variety of ways in which our different forms of media and technology reflect and influence the issues of our society. We will examine how film, television, social media, and podcasts address the world we live in and how, in turn, the consumption of said media influences how we interact with society. The course will consist of the viewing and analysis of multiple films, television programs, articles, and other forms of online media to allow the students to make connections regarding how social issues are represented in the new digital world.

Academic Planning Guide

2022-2023

| | 9 th | 10 th | 11 th | 12 th |
|---|--------------------|---|---|---|
| ISA Spanish Students | AP Human Geography | AP U.S. Government *ISA class with Spanish component | AP U.S. History *ISA class with Spanish component | World History (any level) *Students should consider taking AP European History as an elective. |
| Advanced Placement | AP Human Geography | AP U.S. Government & AP Microeconomics *Possible AP electives include AP Macroeconomics, AP Comparative Gov and AP European History | AP U.S. History *Possible AP electives include AP Macroeconomics, AP Comparative Gov, AP European History, AP Art History, AP Psychology | AP World History *Possible AP electives include AP Macroeconomics, AP Comparative Gov, AP European History, AP Art History and AP Psychology |
| Honors Level | AP Human Geography | Honors U.S. Government & Honors Economics | Honors U.S. History | Honors World History |
| College Prep | World Geography | U.S. Government & Economics | U.S. History | World History |
| 3 – Level | | U.S. Government 103 & Economics 103 | U.S. History 113 | World History 123 |
| Graduation Requirements: 1 unit of World History 1 unit of U.S. History ½ unit of Government ½ unit of Economics | | AP Microeconomics – meets the Economics graduation requirement AP Macroeconomics – counts as an academic elective AP U.S. Government – meets the Government graduation requirement AP Comparative Government – counts as an academic elective Level recommendations will be made each year by social studies teachers to ensure proper level placement and rigor of coursework. All 3-level classes can only be taken with teacher recommendation. | | |

Technology Education

A total of three units are required from Career Tech Education, Modern Language, Latin, and/or Fine Arts.

Intro to Graphics & Design I A&B

For grades 9-12

This is the first course in the Graphic Design Career Pathway. This class is designed to provide an overview of the field of Graphic Communications and Design. Students will learn design concepts, computer layout, and production of printed materials which are pervasive in our world. Students will custom make the products using the Adobe Creative Suite 5. Some projects include notepads, mouse pads, business cards, stationery, brochures, post cards, CD covers, invitations, and more. Students are acquainted with career opportunities in the areas of advertising, graphic design, illustration, typesetting, screen printing, digital printing, offset printing, and others. Students will learn basic techniques of photo editing in Adobe Photoshop, drawing and vector art creation using Adobe Illustrator and page layout skills using Adobe InDesign. Many opportunities are available for students to gain local, state and national recognition through their work produced in this and future courses. This course is a PrintEd accredited program in which a student may obtain a national certification upon completing specific competencies.

Graphic Design and Production—Graphics Arts Tech II A & B

For grades 10-12

Prerequisite: Intro to Graphics & Design I

This is the second course in the Graphic Design Career Pathway. Topics included in this course are Color Theory, Design Principles, Career Path and opportunities in the Design Profession, Digital File Preparation, Introduction to Output Operations, Bindings and Finishing, Ink & Substrates and Workflow.

Advanced Graphic Design – Graphic Arts Tech III A & B

For grades 11-12

Prerequisite: Graphic Design & Production

This is the third course in the Graphic Design Career Pathway. This course enhances level-three skills and provides the opportunity for special projects or independent study. Topics included are Portfolio Development, Professional Practices, Employability Preparation and Advanced Problem Solving.

Advanced Graphic Output Processes-Graphic Arts Tech IV A & B

For grades 11-12

Prerequisite: Adv Graphic Design

This is the fourth course in the Graphic Communications Pathway. Topics included in this course are Career Development, Production Planning, Production Simulation and Advanced Image Preparation. Students will obtain hands on experience learning multiple output processes including: wide format printing, dye sublimation, vinyl cutting for signs, heat transfers and hybrid technologies. Students will print items such as posters, banners, etc.

Broadcast/Video Productions I A & B

For grades 9-12

This is the first course in the Broadcast Video/Production Career Pathway preparing the students for employment of entry into a postsecondary education program in this field. Students in Broadcast/Video Productions will discover the ins and outs of how a television show is made. Topics covered include history of mass media, basic field equipment function, shooting and editing video, studio production, production teams, planning, writing and editing a field production, employability skills, storyboarding, career opportunities and professional ethics.

Broadcast/Video Productions II A&B

For grades 10-12

Prerequisites: BVP I

This is the second course in the Broadcast Video/Production Career Pathway. Students enhance the skill set established in the first course by participating in the production of a daily live newscast. Topics included in this course are operational set-up and maintenance, audio/video control systems, production graphics, studio camera and teleprompter operation, audio production and professional ethics.

Broadcast/Video Production III A&B**For grades 11-12****Prerequisite: BVP II**

This is the third course in the Broadcast Video/Production Career Pathway. This course is designed to facilitate student-led broadcasts under the guidance of the instructor. Students work cooperatively and independently in all phases of broadcast/video production. Topics included in this course are planning, writing and directing a studio production, advanced audio operations, reporting, scriptwriting, technical directing, producing, employability skills and professional ethics.

Broadcast/Video Production IV A&B**For grades 11-12****Prerequisite: BVP III**

This is the fourth course in the Broadcast/Video Production Career Pathway. Students work cooperatively and independently in all phases of broadcast/video production. Advanced technical and leadership roles, like directing, anchoring and producing, are emphasized in the production of the daily newscast. Topics included in this course are advanced camera techniques, advanced editing, employability skills and development of a digital portfolio to include resume, references and production samples.

AP Computer Science Principles A&B*****For grades 10-12****Prerequisite: concurrently GSE Alg.**

Students are introduced to fundamental computer programming concepts, hardware, and interactive programming. Development of a logical problem-solving approach is stressed. Students gain experience in program design and development using Java programming language. The course is the equivalent of a college-level Computer Science Principles course and is preparation for the AP Computer Science Principles exam.

AP Computer Science A&B*****For grades 10-12****Prerequisite: AP Computer Science Principles**

This course emphasizes Java-based objective oriented programming, problem solving, and algorithm development. Development of a logical problem-solving approach is stressed. Students gain experience in designing programs with multiple classes and class hierarchies using the Java programming language. The course is the equivalent of a first semester college-level Computer Science course and is preparation for the AP Computer Science exam.

Computer Science Research – Web Design A&B*****For grades 12****Prerequisite: AP Computer Science Principles & AP Computer Science**

Computer Science Research uses HTML, CSS, and JavaScript to build upon the fundamental concepts learned in AP Computer Science Principles and AP Computer Science A. The course explores the historical and rapidly changing trends in web design. Through programming projects, students will gain the skills and project-based experience needed for entry into web design and development careers. Students will produce a capstone project at the end of the course that demonstrates a superior understanding of the concepts learned throughout the course.

Honors Intro to Engineering Design A&B****For grades 9-12****Prerequisite: concurrent with GSE Alg**

Introduction to Engineering Design is a year-long honors introductory course in the nationally known Project Lead the Way curriculum. The IED course teaches problem-solving skills through use of a design development process. Topics include the history of design, sketching and visualization, modeling, and documentation. Students will create and prototype 3-D models using industry standard CAD software and various manufacturing techniques. Students will learn how to properly document this entire design process.

Honors Principles of Engineering A&B****For grades 10-12****Prerequisite: Intro to Eng. Design & concurrent with GSE Geom.**

This survey course explores many engineering disciplines including mechanical, electrical, environmental, and computer engineering. Some specific topics explored include mechanisms, electricity, energy, statics, materials, fluids, and control systems. Using activities, projects, and problem-solving techniques, students learn first-hand how engineers and technicians use math, science, and technology in a group-focused engineering problem-solving process to benefit people. Students continue mastery of engineering documentation.

Honors Aerospace Engineering A&B****For grades 11-12****Prerequisite: Intro to Engineering Design, Principles of Engineering, and GSE Geom. or teacher approval**

Aerospace Engineering is an advanced year-long honors course in the Project Lead the Way Curriculum. Through hands-on engineering projects developed with NASA, students explore aerodynamics, astronautics, space-life sciences, and systems engineering. Students use a flight simulator to learn why airplanes fly, build and test airfoils in a wind tunnel, build rockets to learn about astronautics, and build robots to further explore systems engineering.

Honors Digital Electronics A&B****For grades 11-12****Prerequisite: Principles of Engineering**

Digital Electronics is a year-long, honors course in the Project Lead the Way Curriculum. This course in applied logic encompasses the application and construction of electronic circuits and devices. Students explore the 1's and 0's behind basic computer logic by using the circuit design process to create truth tables, implement basic logic gates, and use industry standard simulation software to design, test, and build digital circuitry.

Engineering Design & Development**For grade 12**

Engineering Design and Development is the year-long capstone course in the PLTW high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops secondary level knowledge and skills in math, science and technology.

Introduction to Healthcare Science A&B**For grades 9-12**

Introduction to Healthcare Science is a foundations course for the Sports Medicine Pathway. It is appropriate for students wishing to pursue a career in the Healthcare Industry. The course will enable students to receive initial exposure to healthcare skills and attitudes applicable to the healthcare industry. The concepts of health, wellness, and preventative care are evaluated, as well as, ethical and legal responsibilities of today's healthcare provider. Fundamental healthcare skills development is initiated including medical terminology, microbiology, and basic life support.

Essentials of Healthcare A & B**For grades 10-12****Prerequisite: Intro to Healthcare Science A&B**

Anatomy and Physiology is a vital part of most healthcare post-secondary education programs. The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders.

Sports Medicine**For grades 11-12****Prerequisite: Essentials of Healthcare A&B**

Sports Medicine is the third course in the Therapeutic Services/Sports Medicine Career Pathway. The course is appropriate for students who wish to pursue a career in healthcare with a focus on the musculoskeletal system, injury assessment, injury prevention, or rehabilitation including careers in Sports Medicine and Rehabilitative Services. This course will enable students to receive initial exposure to therapeutic services skills and attitudes applicable to the healthcare industry. The concepts of anatomy and physiology, assessment, preventative and rehabilitative care are introduced. Fundamental healthcare skills development is initiated, including medical terminology, kinesiology, patient assessment, record keeping, and basic life support.

Work-based learning**For grade 12****Prerequisite: Sports Medicine A&B**

Work-based Learning placement represents the pinnacle of the Therapeutic Services/Sport Medicine Career Pathway. The job placement must be directly related to the curriculum of the pathway. Students interested in the course must get approval from the pathway director and have plans of placement options before the beginning of the semester.

World Languages

Our World Language department offers a complete program in Chinese, French, Latin and Spanish. A total of three units is required from Career Technical Ed, Modern Language, Latin and/or Fine Arts. Students planning to enter or transfer to a University System of Georgia Institution or other post-secondary institution must take at least two units of the same modern language or Latin.

Levels I, II, III, and IV of the modern languages offered at Walton are for students who are learning these languages as a Foreign Language. Native and Heritage speakers wishing to study their native language at Walton will be placed on a case by case basis depending on their skill development levels. These students may instead prefer to study another modern language.

Latin 1 A&B

For grades 9 –12

This course introduces students to the Latin language and ancient Roman civilization. It emphasizes the skills needed to read Latin literature. The approach used is a reading approach in which grammar is taught in context, and as an aid to, reading comprehension.

Latin 2 A&B

For grades 9-12

Prerequisite: Latin 1

This course enhances Level I skills and provides opportunities to translate longer, more challenging passages. This course is the second half of a two-year sequential course, which develops the skills needed to read Latin literature.

Latin 3 A&B Honors**

For grades 10-12

Prerequisite: Latin 2

This course enhances previously learned skills and introduces original works by Latin authors. The works of the authors may be selected in any order for courses designated at the third, fourth and fifth year levels. Latin III traditionally focuses on prose literature of the late Republic and early Empire. Grammar is taught in the context of the readings.

AP Latin A&B***

For grades 11-12

Prerequisite: Latin 3

This course conforms to College Board required reading for the Advanced Placement Latin Examination. It covers Virgil's *Aeneid* as well as Caesar's *de Bello Gallico* and emphasizes the ability to translate accurately, to interpret critically, to read aloud with attention to pauses and phrasing, to scan Latin hexameter verse, and to demonstrate mastery of Latin syntax through written translations.

Latin 5 Honors A & B***

For grade 12

Prerequisite: AP Latin

This course provides students with the opportunity to experience some of the finest and most influential works of the Latin corpus, and indeed, of world literature. Students can expect to read works by Ovid, Catullus, Caesar, Cicero, Tacitus, Suetonius and others. Emphasis is placed on critical reading, interpretation, and discussion of the literature and on understanding it in historical context.

Chinese 1 A&B

For grades 9-12

This Level I language course focuses on the development of communicative competence in the target language and understanding the culture of the people who speak the language. It assumes that the students have minimal or no prior knowledge of the language and culture. The major means of communication between the students and instructor is in the target language. The course content includes how to greet and take leave of someone, to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of Chinese-speaking cultures.

Prerequisite: Chinese 1

The Level II language course focuses on the continued development of communicative competence in the target language and understanding of the culture(s) of the people who speak the language. It assumes that the students have successfully completed a Level I course. Students begin to show a greater level of accuracy in communicating their immediate world and daily life, read materials on familiar topics, and write short, directed compositions. The major means of communication between students and instructor is the target language. It continues to provide practice in how to greet and take leave of someone, to ask and respond to basic questions, and to speak and read within a range of carefully selected topics.

Chinese 3 A&B Honors**

For grades 11-12

Prerequisite: Chinese 2

The Chinese Level III course is an intermediate course conducted primarily in Chinese that emphasizes the development of reading, writing, listening and speaking skills acquired through the student of new grammatical structures, vocabulary and idioms within the context of a specific theme and country. The textbook is used as the primary source. Students will also be exposed to a variety of supplementary materials such as music, film and internet websites.

Chinese 4 A&B Honors***

For grade 11-12

Prerequisite: Chinese 3

The Chinese Level IV course will help students to develop the ability to express themselves with relative ease and greater proficiency on a variety of topics in both oral and written language. Readings (literary works, articles, and biographies) are utilized to generate oral and written expression as well as to expand vocabulary, grammatical knowledge and cultural understanding. The course, conducted primarily in Chinese, is intended for students who want to continue to develop a strong foundation in the language so that they may communicate effectively in the target language, improve their communication skills and cultural awareness.

Chinese 5 A&B Honors***

For grades 9-12

Prerequisite: Chinese 4 or Native Speaker

The Chinese Level V course will not only support students' ability to express themselves with ease and proficiency on a variety of topics in both oral and written language, but also aim for students to develop the ability to understand spoken Chinese in various contexts. The course embeds various Advanced Placement level topics with emphasis on using the language for active communication. Additionally, it supports student readiness to take the rigorous AP Chinese Language and Culture course the following academic year.

AP Chinese Language and Culture A&B***

For grades 9-12

Prerequisite: Chinese 4, 5 or Native Speaker

AP Chinese Language conforms to College Board topics for the Advanced Placement Chinese Language Examination. The course emphasizes using the language for active communication and has for its objectives the development of the ability to understand spoken Chinese in various contexts, the development of Chinese vocabulary sufficient for reading newspapers and magazines, literary texts, and other non-technical writing, and the development of the ability to express oneself coherently, resourcefully and with reasonable fluency and accuracy in both written and spoken Chinese.

Chinese 6 A&B Honors***

For grades 10-12

Prerequisite: AP Chinese

The Chinese Level VI course is mainly offered to students who have taken the AP Chinese Language and Culture course in prior years. The course is completely taught in Chinese and students who take this course are proficient in their Chinese speaking, listening, reading, and written skills. The course focuses on Chinese culture and literature with the goal of presenting one's Chinese language and culture knowledge in an authentic and culturally appropriate manner. A variety of authentic materials such as newspapers and magazines, books, movies, poetry, and audio recordings will be presented, discussed, and created in this course.

French 1 A&B

For grades 9-12

The Level I language course focuses on the development of communicative competence in the target language and understanding the culture of the people who speak the language. It assumes that the students have minimal or no prior knowledge of the language and culture. The major means of communication is in the target language. The course content includes how to greet and take leave of someone, to ask and respond to basic questions, to speak and read within a range of carefully selected topics, and to develop an understanding of French-speaking cultures.

Prerequisite: French 1

The Level II language course focuses on the continued development of communicative competence in the target language and understanding of the culture(s) of the people who speak the language. Students begin to show a greater level of accuracy when using basic language structures, and they are exposed to more complex features of the language. They continue to focus on communicating about their immediate world and daily life activities, read material on familiar topics, and write short, directed compositions. The major means of communication is in the target language.

French 3 A&B Honors**

For grades 10-12

Prerequisite: French 2

The Level III language course focuses on the continued development of communicative competence in the target language and understanding of the culture(s) of the people who speak the language. Students use basic language structures with accuracy and recombine learned material to express their thoughts. They are exposed to more complex features of the language, moving from concrete to some abstract concepts. The major means of communication is in the target language.

French 4 A&B Honors***

For grades 11-12

Prerequisite: French 3

The Level IV language course focuses on the continued development of communicative competence in the target language and understanding of the culture(s) of the people who speak the language. During this course, they gain confidence in recombining learned material of the language, creating in the language to express their own thoughts, interacting with other speakers of the language, understanding oral and written messages in the foreign language, and making oral and written presentations in the target language. They are exposed to more complex features of the language, moving from concrete to more abstract concepts. In addition, the students will develop the ability to read, analyze, and discuss perceptively representative works of French Literature.

AP French Language & Culture A&B***

For grade 12

Prerequisite: French 4

The AP French Language & Culture course conforms to the College Board themes for the Advanced Placement French Language Examination: global challenges, science and technology, contemporary life, personal and public identities, families and communities and beauty and aesthetics. It emphasizes the use of language for active communication and has for its objectives the development of: interpretive communication through written, audio, visual, and audiovisual texts, spoken and written interpersonal communication, and spoken and written presentational communication. While communicating in French, students explore culture and events in both contemporary and historical settings and examine products and practices of the Francophone culture.

Spanish 1 A&B**For grades 9 –12**

The Level I language course focuses on the development of communicative competence in the target language and understanding the culture of the people who speak the language. It assumes that the students have minimal or no prior knowledge of the language. The course content includes how to greet and take leave of someone, to ask and respond to basic questions, to speak, write and read within a range of specific topics, and to develop an understanding of Spanish-speaking cultures. The major means of communication between students and instructors will be in the target language.

Spanish 2 A&B**For grades 9-12****Prerequisite: Spanish 1**

The Level II language course focuses on the continued development of communicative competence in the target language and understanding of the cultures of the people who speak the language. Students begin to show a greater level of accuracy when using basic language structures, and they are exposed to more complex grammar as well as expansions in vocabulary topics learned in Level 1. They continue to focus on communicating about their daily life activities, read material on familiar topics, and write short, directed compositions. The major means of communication between students and instructors will be the target language.

Spanish 3 A&B Honors****For grades 10-12****Prerequisite: Spanish 2**

The Level III language course focuses on the continued development of communicative competence in the target language and understanding of the cultures of the people who speak the language. Students use basic language structures with accuracy and recombine learned material to express their thoughts. They are exposed to more complex features of the language, moving from concrete to some abstract concepts. The major means of communication between students and instructors will be the target language.

Pre-AP Spanish 3 A&B Advanced Honors****For grades 10-12****Prerequisite: Spanish 2 & teacher recommendation**

This course is an extremely accelerated course in which students will cover Spanish III and Spanish IV in one year. This course is for highly motivated students with strong language skills who will go on to complete both AP Spanish Language and AP Spanish Literature before graduating high school. The major means of communication is in the target language.

Spanish 4 A&B Honors*****For grades 11-12****Prerequisite: Spanish 3**

The Level IV language course focuses on the continued development of communicative competence in the target language and understanding of the cultures of the people who speak the language. They gain confidence in applying learned material of the language to express their own thoughts, interact with other speakers of the language, understand oral and written messages in the foreign language, and make oral and written presentations in the target language. They are exposed to more complex features of the language. Students are able to understand material presented on a variety of topics related to contemporary events and issues in the target language. The major means of communication is in the target language.

Spanish 5 A&B Honors*****For grade 11-12****Prerequisite: Spanish 3 Advanced, Spanish 4 & teacher recommendation**

The Level V language course focuses on the continued development of communicative competence in the language and understanding of the culture(s) of the people who speak the language. Students will focus on reading, writing, listening, and speaking while refining grammar and expanding vocabulary. Students continue to gain confidence in recombining learned material of the language, while continuing to create, interact with other speakers, understand oral and written language, and make presentations. They will manipulate more complex features of the language, including more abstract concepts. Students are able to understand material presented on a variety of topics related to contemporary, historical and literary events and issues in the target culture(s).

AP Spanish Language & Culture A&B*****For grades 11-12****Prerequisite: Spanish 4 or Spanish 3 Advanced & teacher rec.**

This course conforms to the College Board topics for the Advanced Placement Spanish Language Examination. It emphasizes the ability to comprehend formal and informal spoken Spanish, to acquire the vocabulary and grasp of structure to read newspapers, magazines and Hispanic literature to compose expository passages, and to speak accurately and fluently. The major means of communication is in the target language.

AP Spanish Literature & Culture A&B*****For grade 12****Prerequisite: AP Spanish Language**

This course conforms to College Board required authors and selected works for the Advanced Placement Spanish Literature Examination. It emphasizes the ability to understand a lecture in Spanish and discuss literary topics in Spanish, to read Hispanic literary texts in all genres, and to analyze critically from and content of literary works orally and in writing using appropriate terminology.

| 9th | 10th | 11th | 12th |
|--|--|------------------------|--|
| Chinese 1 | Chinese 2 | Honors Chinese 3 | Honors Chinese 4 |
| Chinese 2 | Honors Chinese 3 | Honors Chinese 4 | Honors Chinese 5 or AP Chinese |
| Latin 1 | Latin 2 | Honors Latin 3 | AP Latin |
| Latin 2 | Honors Latin 3 | AP Latin | Honors Latin 5 |
| French 1 | French 2 | Honors French 3 | Honors French 4 |
| French 2 | Honors French 3 | Honors French 4 | AP French |
| Spanish 1 | Spanish 2 | Honors Spanish 3 | Honors Spanish IV |
| Spanish 1 | Spanish 2/Honors Spanish 2 (spring sem) | Pre-AP Spanish | AP Spanish Language |
| Spanish 2 | Honors Spanish 3 | Honors Spanish 4 | AP Spanish Language or Spanish 5 Honors |
| Spanish 2/Honors Spanish 2 (spring sem) | Pre-AP Spanish | AP Spanish Language | AP Spanish Literature |
| | | Spanish 5 Honors | AP Spanish Language |

*Honors Chinese 6 may be taken after the completion of AP Chinese.

Summer Reading Requirements

Every student will have a required summer reading assignment in English and Social Studies. Additionally, some courses in mathematics and science require a summer learning assignment. These assignments along with specific instructions on the assignments will be posted to the Walton website in May. Please consider these requirements when planning your course selection for the 2021-2022 school year.

English Summer Reading:

9th Grade English Literature and Composition (All levels – one book with assignment)

Refugee (Gratz)

10th Grade English World Literature (One required book with assignment)

The Alchemist (Coelho)

10th Grade English Honors World Literature (One required book with assignment)

Life of Pi (Martel)

10th Grade English ISA Honors World Literature (One required book with assignment)

Bless Me, Ultima (Anaya)

10th Grade World Literature Small Group (One required book with assignment)

Of Mice and Men (Steinbeck)

10th Grade AP Language and Composition (Two required books with assignment)

Thank You for Arguing, Fourth Edition (Heinrichs)

The Elements of Style (Strunk and White)

11th Grade English American Literature (One required book with assignment)

Narrative of the Life of Frederick Douglass (Douglass)

11th Grade English Honors American Literature (One required book with assignment)

Narrative of the Life of Frederick Douglass (Douglass)

11th Grade English LA Honors American Literature (Two required books)

Narrative of the Life of Frederick Douglass (Douglass)

How to Read Literature Like a Professor (Foster)

11th Grade American Literature Small Group (One required book with assignment)

Narrative of the Life of Frederick Douglass (Douglass)

11th Grade AP Language and Composition/American Literature (Two required books with assignment)

Narrative of the Life of Frederick Douglass (Douglass)

Outliers (Gladwell)

***In addition to summer reading, all 12th graders must complete the College Recommendation Packet available on the “Information” page of the School Counseling website by the end of summer.**

[Home | Walton High School Counseling Department \(waltonhighcounseling.com\)](http://waltonhighcounseling.com)

12th Grade English British Literature (One required book) *

Buried Giant (Ishiguro)

12th Grade Dramatic Writing (one book and one movie required) *

The Martian (Weir – novel) and *The Martian* (film, 2015)

12th Grade English Honors British Literature (One required book with assignment) *

Buried Giant (Ishiguro)

12th Grade British Literature Small Group (One required book with assignment) *

The Hound of the Baskervilles (Doyle)

12th Grade AP Literature and Composition (Two required books with assignment) *

Grendel (Gardner)

Oryx and Crake (Atwood)

12th Grade ISA AP Literature and Composition (One required book with assignment) *

One Hundred Years of Solitude (Garcia Marquez)

Social Studies Summer Reading:

World Geography & AP Human Geography

Refugee (Gratz)

Economics, Honors Economics, & AP Microeconomics

How an Economy Grows and Why it Crashes (Schiff and Schiff)

Government

The United States Constitution: A Graphic Adaptation (Hennessey)

Honors Government & AP Government

Nickel & Dimed (Ehrenreich)

U.S. History, Honors U.S. History & AP U.S. History

Narrative of the Life of Frederick Douglass (Douglass)

World History & Honors World History

A History of the World in Six Glasses (Introduction & Chapter 1-4 ONLY) (Standage)

AP World History

The Human WEB (Chapters 1-4 only) (J.R. and Williams McNeill)

AP European History

Brunelleschi's Dome: How a Renaissance Genius Reinvented Architecture (King)

Science Summer Assignment:

All students enrolled in AP Biology will have a summer assignment. Students should contact Mr. Wolfe at douglas.wolfe@cobbk12.org for access to Canvas and the assignment. Students should include their name, email address and section (Regular, STEM AMS or STEM Biomed) when contacting Mr. Wolfe.

Math Summer Assignment:

All Students enrolled in Accelerated Geometry/Algebra 2 will have a summer packet to complete. The packet will be available on the Mathematics Department page of the Walton website in May.

Post-Secondary Planning

At Walton, approximately 98% of students attend either a two- or four-year college upon graduation. This figure remains steady with each graduating class. All students at Walton are encouraged to take challenging courses that will prepare them for whatever post-secondary school they desire to attend. Colleges appreciate students who demonstrate a willingness to attempt higher level classes, such as AP and Honors. Success in these classes is evidence to admission committees that a student has what it takes to succeed and excel at their institution as well. In addition to the rigorous coursework, essays, extra-curricular involvement, and teacher recommendations, colleges may consider SAT and ACT test scores as a measure of how well a student will do once they are in college.

The College and Career Center at Walton is open to juniors and seniors. There are computers available for students to use to begin the college search process, research programs of study, work on applications and essays, and check the status of their applications. Students may also set up individual appointments to obtain assistance on beginning the college search, choosing colleges, preparing for interviews, and career exploration. In addition to live help, there are also numerous books and publications for student use on all aspects of applying, test taking, and funding for college.

College admissions representatives visit Walton throughout the year. These visits provide a personal touch that may not be available in schools' literature. Representatives inform students about the school's admissions process and deadlines, campus life, housing, majors available, and scholarships. Students can ask questions, and this is often a chance for students to meet the person who will read their application in the future. Juniors and Seniors must register via Naviance 24 hours in advance and print the email reminder to present to teachers. Students must notify teachers in advance if they need to miss class to attend a college visit. It is up to the teacher to determine if the student can miss the class.

Walton school counselors offer a comprehensive informational session on college preparation for parents of juniors in the spring each year and for parents of seniors in the fall. There is also a Financial Aid Night for parents held in the fall each year to help simplify the financial aid process. A representative from the Georgia Student Finance Commission and a Walton school counselor address all aspects of financial aid including the HOPE scholarship, the FAFSA, CSS Profile, loans and grants.

NCAA Clearing House

Students who are interested in playing a sport on the collegiate level must register with the National Collegiate Athletic Association (NCAA) prior to communication and official visitation for recruiting purposes. This registration is usually done in the spring of the junior year; however, it can be completed earlier. To register go to: www.eligibilitycenter.org, click the box marked, "NCAA COLLEGE-BOUND, STUDENT-ATHLETE". Under the Resources Tab, click "U.S. Students." Follow the steps for registration.